Williams

Catalog 311

Williams®

J.H. Williams Industrial Products, Inc.

Corporate Headquarters

6969 Jamesson Road
P.O. Box 7577
Columbus, GA 31908
Phone: 404-563-9590
FAX: 404-561-0061

Customer Service

Eastern and Central Region
Phone: 404-569-1002

Western Region
Phone: 800-423-2062

Domestic & International
FAX: 404-563-1820

Western Region Warehouse

Phone: 714-998-0860

Inside CA
800-821-4772

Outside CA
800-821-7449

FAX: 714-974-6946

Plant

6969 Jamesson Road
Columbus, GA 31909

Catalog 311

This catalog supersedes all previous issues. Finishes, materials, and designs are subject to change without notice or regard to catalog descriptions. We reserve the right to discontinue items at any time without notice.

Federal Specifications

The federal specifications listed in this catalog are primarily intended as a guide to classify types of tools. Use of this classification system does not necessarily mean the particular tool is in full conformity to federal specification.

Safety

Hand tools are generally designed to perform one function – do not use them improperly. Screwdrivers are not chisels, adjustables are not hammers and pliers are not intended to replace wrenches. Each of our product groups contains specific safety tips for proper tool usage. Additionally, wear appropriate clothing for the job, and always wear safety glasses.

Note To Distributor

This catalog has been prepared following guidelines established by I.D.A. It will provide Williams Distributors with maximum flexibility in preparing their own product catalog. It is also an easy-to-use information source on the entire Williams product line.

Industrial Distribution

For more than 100 years Williams tools have been sold through America's industrial distributors. Our marketing and sales efforts are targeted at supporting our distributors. The next 100 years will see even stronger distributor support programs focused on improved service levels, sales support programs, and product lines.

Warranty

We warrant that products sold by J.H. Williams Industrial Products, Inc., shall be free from defects in materials and workmanship. We will replace, repair or grant a credit for any product which does not comply with this warranty. This warranty does not apply to any products which have been altered, misused, subject to an accident or used beyond their normal useful life. Warranty claims should be made through the distributor from whom the product was purchased. Complete information as to usage should accompany any product returned under warranty.

This warranty is in lieu of all other warranties, express or implied, including any implied warranty of fitness for a particular purpose and is also in lieu of all other obligations or liabilities on the part of J.H. Williams Industrial Products, Inc., including any obligation or liability arising from contract, tort or otherwise for damages whether direct, indirect or consequential. There are no other warranties, express or implied, made by us except the warranty against defects in material and workmanship set forth above, and we neither assume nor authorize any other person or firm to assume for it any other obligation or liability in connection with our products.

Trademarks

Following are registered trademarks under which we manufacture and sell our products.

Williams®

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SUPERECTOR®

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AMERICAN SUPPLY & MACHINERY MANUFACTURERS ASSOCIATION

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The J.H. Williams plant in Columbus, Georgia is a modern, highly efficient facility. It includes manufacturing, finishing, inventory and shipping as well as high-tech order processing. We would welcome your visit so you can see J.H. Williams in action!

The New Williams Spirit of Service

Although J.H. Williams has more than 100 years' experience in manufacturing quality industrial hand tools, there is a new dynamics . . . a new spirit of service. It is evident throughout its entire organization, in every step from manufacturing to shipping.

J.H. Williams has taken great strides in developing a complete product line covering most every industrial hand tool needed in today's complex world. There is an excellent spectrum of hand tools and sets in a wide range of sizes as well as a variety of storage chests and cabinets. All of them are manufactured with Williams traditional quality.

J.H. Williams has moved ahead of its competitors by creating a high service level. Williams manufactures and/or inventories all the thousands of items in this catalog in its Georgia facility.

Your Williams Industrial Distributor can place your order instantly with electronic direct order entry. In this way your order can be processed and shipped the very same day.

J.H. Williams, today, is a dynamic company more streamlined and efficient than ever before. Its compact management team assures quick reaction to answer customer problems.

The above are a few highlights of the new spirit of service you will find at J.H. Williams. Service offered through the many industrial distributors throughout America and the World who represent Williams. Service that brings you quality Williams products, excellent inventories, quick access plus training and safety support. Yes, there's a new spirit of service at J.H. Williams. We'd like to be of service to you.

Key to Williams Numbering and Prefixing System

In addition to straight numerical designations, many numbers are preceded with alphabetical prefixes in this catalog. This has been done to eliminate duplications and to assist users in locating products in this catalog by number or prefix.

Number or Prefix	Description	Page
0-	1/4" Drive Impact Extensions	70
2-	3/8" Drive Impact Sockets and Accessories	71
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Key to Williams Numbering and Prefixing System

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Williams®

Section 1

Industrial Sets

J.H. Williams offers a wide range of sets for all types of industrial requirements. Each set is individually designed for specific applications from general service and light assembly to heavy equipment maintenance and repair.

All industrial sets include the most popular tools from each category to accommodate the most common applications. The appropriate tool storage has been selected for each set. In addition, only the tools of each set can be ordered allowing for other Williams chest and cabinet combinations. Metric industrial sets are listed in the Metric Tool Section.

Professional jobs require quality tools.

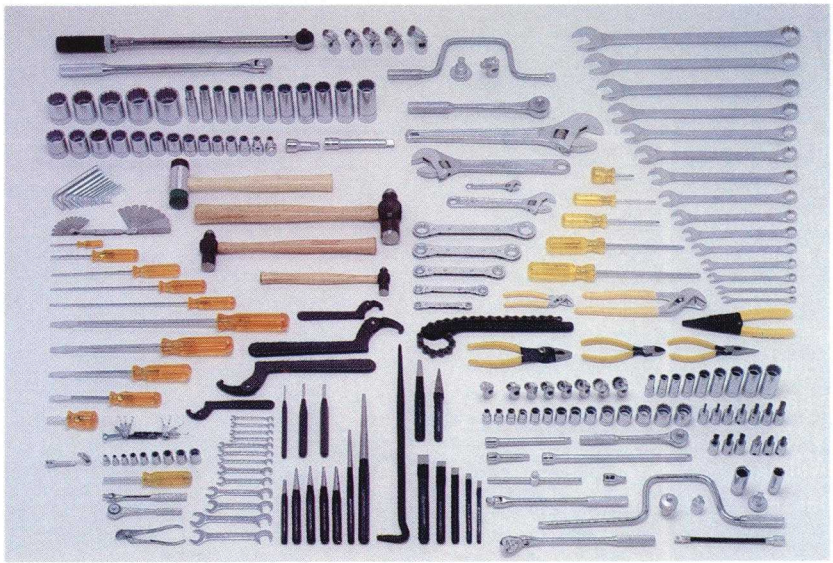
Williams has established a Custom Set Department dedicated to the make-up of tool sets to meet competitive or special purpose requirements. For a quick response, direct your inquiry or set specifications to our Customer Service Department.

Williams General Service Set

In this set the service mechanic has everything he needs right at the job to do it expediently and safely.

Set Cat. No. WSC-219 219 Tools with Roller Cabinet TC-605CAR and Tool Chests TB-6024R and TB-6001R
EDP No. 49032 Weight 275.9 Lbs. – 125.3 Kg.

Set Cat. No. WSC-219T 219 Tools Only EDP No. 49033 Weight 73.9 Lbs. – 33.5 Kg.



Fractional Wrenches

WS-1172T Comb Wr Set:

1159	5/16
1160	3/8
1161	7/16
1162	1/2
1163	9/16
1164	5/8
1165	11/16
1166	3/4
1167A	13/16
1167	7/8
1168	15/16
1170	1
1171	1 1/16
1172	1 1/8
1173	1 1/4

WS-1142PT OE Wr Set:

1112	3/16
1113	13/64
1114	7/32
1115	15/64
1116	1/4
1118	9/32
1120	5/16
1122	11/32
1124	3/8
1128	7/16
1132	1/2
1136	9/16
1140	5/8
PL-1519	5" Superjoint

WS-12T Ratch Box Wr Set:

RB-810	1/4 x 5/16
RB-1214	3/8 x 7/16
RB-1618	1/2 x 9/16
RB-2022	5/8 x 11/16
RB-2428	3/4 x 7/8

471	Adj Hk Span Wr
474	Adj Hk Span Wr
0-471	Adj Pin Span Wr
0-474	Adj Pin Span Wr
AP-4	4" Adj Wr
AP-8X	8" Adj Wr
AP-12X	12" Adj Wr
AP-15X	15" Adj Wr
CW-4	Chain Wrench
WS-44	13 Skt Hd Keys

Fractional Hand Sockets

WSM-2T 1/4" Dr Set:

M-605	5/32 6 Pt Skt
M-606	3/16 6 Pt Skt
M-608	1/4 6 Pt Skt
M-1210	5/16 12 Pt Skt
M-1211	11/32 12 Pt Skt
M-1212	3/8 12 Pt Skt
M-1214	7/16 12 Pt Skt
M-1216	1/2 12 Pt Skt
M-1218	9/16 12 Pt Skt
M-42A	Flex Hdle
M-52	Ratchet
M-102	2" Extension
M-106	Spinner Hdle
M-140A	Universal Jt

WSB-6T 3/8" Dr Set:

B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt
B-1226	13/16 12 Pt Skt
B-1228	7/8 12 Pt Skt
B-1230	15/16 12 Pt Skt
B-1232	1 12 Pt Skt
BD-1212	3/8 12 Pt Dp Skt
BD-1214	7/16 12 Pt Dp Skt
BD-1216	1/2 12 Pt Dp Skt
BD-1218	9/16 12 Pt Dp Skt
BD-1220	5/8 12 Pt Dp Skt
BD-1222	11/16 12 Pt Dp Skt
BD-1224	3/4 12 Pt Dp Skt
BD-1226	13/16 12 Pt Dp Skt
BD-1228	7/8 12 Pt Dp Skt
BD-620P	5/8 Spark Plg Skt
BD-626P	13/16 Spark Plg Skt
BA-4	1/8 Hex Bit Skt
BA-5	5/32 Hex Bit Skt
BA-6	3/16 Hex Bit Skt
BA-7	7/32 Hex Bit Skt
BA-8	1/4 Hex Bit Skt
BA-10	5/16 Hex Bit Skt
BA-12	3/8 Hex Bit Skt
BA-10-1P	No. 1 Phil S.B. Skt
BA-10-2P	No. 2 Phil S.B. Skt
BA-10-3P	No. 3 Phil S.B. Skt
BA-10-2S	.040 Slot S.B. Skt
BA-10-3S	.045 Slot S.B. Skt
BA-10-4S	.055 Slot S.B. Skt
BU-1212	3/8 Univ Skt
BU-1214	7/16 Univ Skt
BU-1216	1/2 Univ Skt
BU-1218	9/16 Univ Skt
BU-1220	5/8 Univ Skt
BU-1222	11/16 Univ Skt
BU-1224	3/4 Univ Skt
B-15	Speeder
B-20A	Sliding T Hdle
B-40A	Flex Hdle
B-52	Ratchet
B-55	Ratchet Adapter
B-70	Ratchet Spinner
B-101	1 1/2" Extension
B-108	3" Extension
B-110	6" Extension
B-115	10 1/2" Extension
B-140A	Univ Joint
BFE-8	Flexible Extension

WSS-8T 1/2" Dr Set:

ST-1212	3/8 12 Pt Skt
ST-1214	7/16 12 Pt Skt
ST-1216	1/2 12 Pt Skt
ST-1218	9/16 12 Pt Skt
ST-1220	5/8 12 Pt Skt
ST-1222	11/16 12 Pt Skt
ST-1224	3/4 12 Pt Skt
ST-1226	13/16 12 Pt Skt
ST-1228	7/8 12 Pt Skt
ST-1230	15/16 12 Pt Skt
ST-1232	1 12 Pt Skt
ST-1234	1 1/16 12 Pt Skt
ST-1236	1 1/8 12 Pt Skt
ST-1238	1 3/16 12 Pt Skt
ST-1240	1 1/4 12 Pt Skt
ST-1242	1 5/16 12 Pt Skt
ST-1244	1 3/8 12 Pt Skt
ST-1246	1 7/16 12 Pt Skt
ST-1248	1 1/2 12 Pt Skt
SD-1216	1/2 12 Pt Dp Skt
SD-1218	9/16 12 Pt Dp Skt
SD-1220	5/8 12 Pt Dp Skt
SD-1222	11/16 12 Pt Dp Skt
SD-1224	3/4 12 Pt Dp Skt
SD-1226	13/16 12 Pt Dp Skt
SD-1228	7/8 12 Pt Dp Skt
SD-1230	15/16 12 Pt Dp Skt
SD-1232	1 12 Pt Dp Skt
SD-1234	1 1/16 12 Pt Dp Skt
SD-1236	1 1/8 12 Pt Dp Skt
S-52	Ratchet
S-55A	Ratchet Adapter
S-102P	2 1/2" Extension
S-110P	5 1/2" Extension
S-115P	9 3/4" Extension
S-15A	Speeder
S-70	Ratchet Spinner
S-40A	Flex Hdle
S-140A	Univ Joint

WSS-11T 1/2" Dr Univ Set:

SU-1216	1/2 12 Pt Univ Skt
SU-1218	9/16 12 Pt Univ Skt
SU-1220	5/8 12 Pt Univ Skt
SU-1222	11/16 12 Pt Univ Skt
SU-1224	3/4 12 Pt Univ Skt

Pliers & Screwdrivers

PLS-6 Pliers Set:

PL-46C	6" Dia. Cut
PL-76C	6" Chain Nose
PL-218C	Cutter Crimper
PL-370C	7 1/2" Slip Joint
PL-1519C	5" Superjoint
PL-1520C	10" Superjoint

DES-5 Screwdriver Set:

DE-43	3" Elec. Rd Blade
DE-46	6" Elec. Rd Blade
DE-48	8" Elec. Rd Blade
DE-50	10" Elec. Rd Blade
DE-52	2" Elec. Rd Blade

DPS-5 Screwdriver Set:

DP-1	3" No. 1 Phillips
DP-2	4" No. 2 Phillips
DP-3	6" No. 3 Phillips
DP-4	8" No. 4 Phillips
DP-62	1 1/4" No. 2 Phillips

DSS-5 Screwdriver Set:

DS-4	4" Mech. Sq Blade
DS-6	6" Mech. Sq Blade
DS-8	8" Mech. Sq Blade
DS-12	12" Mech. Sq Blade
DS-62	1 1/4" Mech. Sq Blade

Hammers/Punches/Chisels

HBP-5-0	4 oz. Hammer
HBP-2-0	3/4 lb. Hammer
HBP-4	2 lb. Hammer
HSF-155-A	Hammer Body
HSF-15H	Hard Tip
HSF-15S	Soft Tip

PC-17 Punch and Chisel Set:

P-4	Pin, 1/8 pt
P-6	Pin, 3/16 pt
P-8	Pin, 1/4 pt
P-14	Sld, 1/8 pt
P-15	Sld, 5/32 pt
P-16	Sld, 3/16 pt
P-25	Tpr, 5/32 pt
P-28	Tpr, 1/4 pt
P-32	Prick Punch, 6"
P-40	Center Punch, 5"
C-10	Cold Chisel, 5/16 pt
C-12	Cold Chisel, 3/8 pt
C-16	Cold Chisel, 1/2 pt
C-20	Cold Chisel, 5/8 pt
C-24	Cold Chisel, 3/4 pt
C-42	Cape, 6 1/4 x 1/4 pt
C-62	Dia pt 7 x 3/8 pt
C-715	15" Roll Bar

Miscellaneous Tools

GS-3	Feeler Gauge Set
MWS-47	7 Hx Keys w Hdl
STW-3RCF	Torque Wr 250 ft lb

Williams
Diesel and Stationary Equipment Master Mechanic's Set

Here's a master set for a variety of Diesel engine needs and stationary equipment maintenance. A wide range of wrenches compliments sockets and accessories in three drive sizes. A good selection of miscellaneous tools insures convenience and versatility.

Set Cat. No. WSC-206 206 Tools with Roller Cabinet TC-708 and Tool Chest TB-7012
EDP No. 49034 Weight 455.4 Lbs. – 206.8 Kg.

Set Cat. No. WSC-206T 206 Tools Only EDP No. 49035 Weight 136.4 Lbs. – 61.9 Kg.

Fractional Wrenches

WS-1172T Comb Wr Set:

1159	5/16
1160	3/8
1161	7/16
1162	1/2
1163	9/16
1164	5/8
1165	11/16
1166	3/4
1167A	13/16
1167	7/8
1168	15/16
1170	1
1171	1 1/16
1172	1 1/8
1173	1 1/4

WS-12T Ratch Box Wr Set:

RB-810	1/4 x 5/16
RB-1214	3/8 x 7/16
RB-1618	1/2 x 9/16
RB-2022	5/8 x 11/16
RB-2024	5/8 x 3/4
RB-2428	3/4 x 7/8

AP-10X	10" Adj Wr
AP-18	18" Adj Wr
CW-4	Chain Wrench
WS-44	13 Skt Hd Keys

Fractional Hand Sockets

WSB-4T 3/8" Drive Set:

B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8" 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt
B-40A	Flex Hdle
B-52	Ratchet
B-108	3" Extension
B-110	6" Extension
B-140A	Univ Joint
B-15	Speeder
B-20A	Sliding T Hdle
B-115	10½" Extension

WSS-7T ½" Dr Set:

ST-1212	3/8 12 Pt Skt
ST-1214	7/16 12 Pt Skt
ST-1216	1/2 12 Pt Skt
ST-1218	9/16 12 Pt Skt
ST-1220	5/8 12 Pt Skt
ST-1222	11/16 12 Pt Skt
ST-1224	3/4 12 Pt Skt
ST-1226	13/16 12 Pt Skt
ST-1228	7/8 12 Pt Skt
ST-1230	15/16 12 Pt Skt
ST-1232	1 12 Pt Skt
ST-1234	1 1/16 12 Pt Skt
ST-1236	1 1/8 12 Pt Skt
ST-1238	1 3/16 12 Pt Skt
ST-1240	1 1/4 12 Pt Skt
ST-1242	1 5/16 12 Pt Skt
ST-1244	1 3/8 12 Pt Skt
ST-1246	1 7/16 12 Pt Skt
ST-1248	1 1/2 12 Pt Skt
SD-1216	1/2 12 Pt Dp Skt
SD-1218	9/16 12 Pt Dp Skt
SD-1220	5/8 12 Pt Dp Skt
SD-1222	11/16 12 Pt Dp Skt
SD-1224	3/4 12 Pt Dp Skt
SD-1226	13/16 12 Pt Dp Skt
SD-1228	7/8 12 Pt Dp Skt
SD-1230	15/16 12 Pt Dp Skt
SD-1232	1 12 Pt Dp Skt
SD-1234	1 1/16 12 Pt Dp Skt
SD-1236	1 1/8 12 Pt Dp Skt
SA-8	1/4 Hex Bit Skt
SA-10	5/16 Hex Bit Skt
SA-12	3/8 Hex Bit Skt
SA-16	1/2 Hex Bit Skt
SA-18	9/16 Hex Bit Skt
SA-20	5/8 Hex Bit Skt
SA-10-1P	No. 1 Phillips S.B. Skt
SA-10-2P	No. 2 Phillips S.B. Skt
SA-10-3P	No. 3 Phillips S.B. Skt
SA-10-4P	No. 4 Phillips S.B. Skt
SA-10-1S	.032 Slot Bit Skt
SA-10-2S	.040 Slot Bit Skt
SA-10-3S	.045 Slot Bit Skt
SA-10-4S	.055 Slot Bit Skt
SU-1216	1/2 Univ Skt
SU-1218	9/16 Univ Skt
SU-1220	5/8 Univ Skt
SU-1222	11/16 Univ Skt
SU-1224	3/4 Univ Skt
S-15A	Speeder
S-20A	Sliding T Hdle
S-40A	Flex Hdle
S-41A	Flex Hdle
S-52	Ratchet
S-55A	Ratchet Adapter
S-60D	Stud Remover
S-70	Ratchet Spinner
S-102P	2½" Extension
S-110P	5½" Extension
S-115P	9¾" Extension
S-140A	Univ Joint
S-53	15" Ratchet
ST-812	3/8 8 Pt Skt
ST-814	7/16 8 Pt Skt
ST-816	1/2 8 Pt Skt
ST-818	9/16 8 Pt Skt
ST-820	5/8 8 Pt Skt
ST-822	11/16 8 Pt Skt
ST-824	3/4 8 Pt Skt
ST-826	13/16 8 Pt Skt
ST-828	7/8 8 Pt Skt
ST-832	1 8 Pt Skt

WSH-4T 3/4" Dr Set:

H-1224	3/4 12 Pt Skt
H-1226	13/16 12 Pt Skt
H-1228	7/8 12 Pt Skt
H-1230	15/16 12 Pt Skt
H-1232	1 12 Pt Skt
H-1234	1 1/16 12 Pt Skt
H-1236	1 1/8 12 Pt Skt
H-1240	1 1/4 12 Pt Skt
H-1242	1 5/16 12 Pt Skt
H-1246	1 7/16 12 Pt Skt
H-1248	1 1/2 12 Pt Skt
H-1252	1 5/8 12 Pt Skt
H-1254	1 11/16 12 Pt Skt
H-1258	1 13/16 12 Pt Skt
H-1260	1 7/8 12 Pt Skt
H-1264	2 12 Pt Skt
H-1266	2 1/16 12 Pt Skt
H-1270	2 3/16 12 Pt Skt
H-1272	2 1/4 12 Pt Skt
H-1276	2 3/8 12 Pt Skt
H-A1	Handle
H-20A	Sliding T Hdle
H-41A	Flex Hdle
H-51A	Ratchet
H-55	Ratchet Adapter
H-104	4" Extension
H-110	8" Extension
H-115	15½" Extension
H-140A	Univ Joint

Pliers & Screwdrivers

PLS-6 Pliers Set:

PL-46C	6" Diag Cut
PL-76C	6" Chain Nose
PL-218C	Crimper
PL-370C	7½ Slip Joint
PL-1519C	5" Superjoint
PL-1520C	10" Superjoint

PL-1524C	16" Superjoint
PL-1600C	Snap Ring Plier Set

DSS-5 Screwdriver Set:

DS-4	4" Mech. Sq Blade
DS-6	6" Mech. Sq Blade
DS-8	8" Mech. Sq Blade
DS-12	12" Mech. Sq Blade
DS-62	1¼" Mech. Sq Blade

DES-5 Screwdriver Set:

DE-43	3" Elec. Rd Blade
DE-46	6" Elec. Rd Blade
DE-48	8" Elec. Rd Blade
DE-50	10" Elec. Rd Blade
DE-52	2" Elec. Rd Blade

DPS-5 Screwdriver Set:

DP-1	3" No. 1 Phil
DP-2	4" No. 2 Phil
DP-3	6" No. 3 Phil
DP-4	8" No. 4 Phil
DP-62	1¼" No. 2 Phil

Hammers/Punches/Chisels

HSF-155-A	Hammer Body
HSF-15H	Hard Tip
HSF-15S	Soft Tip
HSF-250-A	Hammer Body
HSF-25H	Hard Tip
HSF-25T	Tough Tip
HBP-0	1 lb. Hammer
HBP-4	2 lb. Hammer

PC-17 Punch and Chisel Set:

C-10	Cold Chisel, 5/16 pt
C-12	Cold Chisel, 3/8 pt
C-16	Cold Chisel, 1/2 pt
C-20	Cold Chisel, 5/8 pt
C-24	Cold Chisel, 3/4 pt
C-42	Cape, 6 1/4 x 1/4 pt
C-62	Dia Pt, 7 x 3/8 pt
P-4	Pin Punch, 1/8 pt
P-6	Pin Punch, 3/16 pt
P-8	Pin Punch, 1/4 pt
P-14	Sld Punch, 1/8 pt
P-15	Sld Punch, 5/32 pt
P-16	Sld Punch, 3/16 pt
P-25	Tpr Punch, 5/32 pt
P-28	Tpr Punch, 1/4 pt
P-32	Prick Punch, 6"
P-40	Ctr Punch, 5"

C-709	9¼" Roll Bar
C-718	18" Roll Bar

Miscellaneous Tools

GS-1	Master Feeler Gauge Set

Williams Super Set

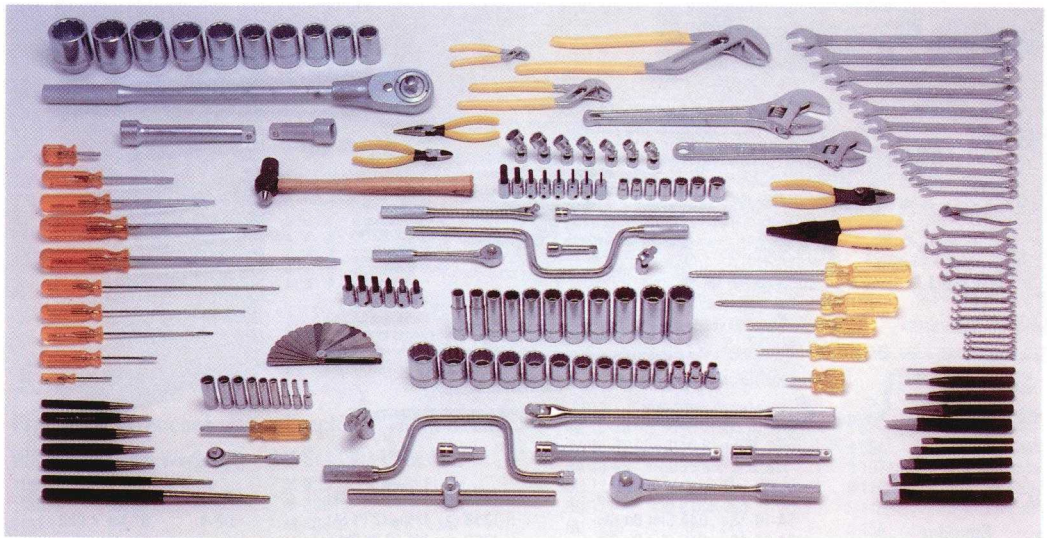
With hex or 12 point socket openings from 5/32" thru 1 13/16" and a variety of drivers in 1/4", 3/8", 1/2" and 3/4" drives this becomes a remarkably versatile set. Adapters in each of the drive sizes make it possible to use drivers of one size with sockets of the next larger drive size.

In addition to a flexible socket wrench system, this set contains midget open-end wrenches, combination open end-box wrenches, adjustable wrenches, pliers, punches, chisels and screw drivers plus a ball pein hammer, feeler gauge set and a 4" capacity chain wrench.

The wide range of work that can be covered by such a comprehensive set as this makes it ideal for general maintenance mechanics, millwrights, mechanical equipment repairmen, general contractors, mechanics on unit-type assembly lines, automotive mechanics and many others. With this set the operator is sure to have the right tool at the right time.

Set Cat. No. WSC-163 163 Tools with Tool Chest TB-6010R
EDP No. 49037 Weight 137.8 Lbs. – 62.5 Kg.

Set Cat. No. WSC-163T 163 Tools Only EDP No. 49036 Weight 67.8 Lbs. – 30.8 Kg.



Fractional Wrenches

WS-1170T Combination Wrench Set:

1160	3/8
1161	7/16
1162	1/2
1163	9/16
1164	5/8
1165	11/16
1166	3/4
1167A	13/16 Comb Wr
1167	7/8 Comb Wr
1168	15/16 Comb Wr
1170	1 Comb Wr
1178	1 1/2 Comb Wr
AP-6X	6" Adj Wr
AP-12X	12" Adj Wr

WS-1142PT OE Wr Set:

1112	3/16
1113	13/64
1114	7/32
1115	15/64
1116	1/4
1118	9/32
1120	5/16
1122	11/32
1124	3/8
1128	7/16
1132	1/2
1136	9/16
1140	5/8
PL-1519	5" Superjoint

Fractional Hand Sockets

WSM-3T 1/4" Drive Set:

MD-605	5/32 6 Pt Dp Skt
MD-606	3/16 6 Pt Dp Skt
MD-608	1/4 6 Pt Dp Skt
MD-1210	5/16 12 Pt Dp Skt
MD-1211	11/32 12 Pt Dp Skt
MD-1212	3/8 12 Pt Dp Skt
MD-1214	7/16 12 Pt Dp Skt
MD-1216	1/2 12 Pt Dp Skt
MD-1218	9/16 12 Pt Dp Skt
M-52	Ratchet
M-106	Spinner Hdle

WSB-16T 3/8" Drive Set:

B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt
B-40A	Flex Hdle
B-52	Ratchet
B-108	3" Extension

WSB-13T 3/8" Skt Set:

BA-3	3/32 Hex Bit Skt
BA-4	1/8 Hex Bit Skt
BA-5	5/32 Hex Bit Skt
BA-6	3/16 Hex Bit Skt
BA-7	7/32 Hex Bit Skt
BA-8	1/4 Hex Bit Skt
BA-10	5/16 Hex Bit Skt
BA-12	3/8 Hex Bit Skt
BA-10-1P	#1 Phil S.B. Skt
BA-10-2P	#2 Phil S.B. Skt
BA-10-3P	#3 Phil S.B. Skt
BA-10-2S	.040 Slt S.B. Skt
BA-10-3S	.045 Slot S.B. Skt
BA-10-4S	.055 Slot S.B. Skt

WSB-12T 3/8" Univ Set:

BU-1212	3/8 12 Pt Univ Skt
BU-1214	7/16 12 Pt Univ Skt
BU-1216	1/2 12 Pt Univ Skt
BU-1218	9/16 12 Pt Univ Skt
BU-1220	5/8 12 Pt Univ Skt
BU-1222	11/16 12 Pt Univ Skt
BU-1224	3/4 12 Pt Univ Skt
B-15	Speeder
B-115	10 1/2" Extension
B-140A	Univ Joint

WSS-6T 1/2" Drive Set:

ST-1212	3/8 12 Pt Skt
ST-1214	7/16 12 Pt Skt
ST-1216	1/2 12 Pt Skt
ST-1218	9/16 12 Pt Skt
ST-1220	5/8 12 Pt Skt
ST-1222	11/16 12 Pt Skt
ST-1224	3/4 12 Pt Skt
ST-1226	13/16 12 Pt Skt
ST-1228	7/8 12 pt Skt
ST-1230	15/16 12 Pt Skt
ST-1232	1 12 Pt Skt
ST-1234	1 1/16 12 Pt Skt
ST-1236	1 1/8 12 Pt Skt
ST-1240	1 1/4 12 Pt Skt
SD-1216	1/2 12 Pt Dp Skt
SD-1218	9/16 12 Pt Dp Skt
SD-1220	5/8 12 Pt Dp Skt
SD-1222	11/16 12 Pt Dp Skt
SD-1224	3/4 12 Pt Dp Skt
SD-1226	13/16 12 Pt Dp Skt
SD-1228	7/8 12 Pt Dp Skt
SD-1230	15/16 12 Pt Dp Skt
SD-1232	1 12 Pt Dp Skt
SD-1234	1 1/16 12 Pt Dp Skt
SD-1236	1 1/8 12 Pt Dp Skt
S-15A	Speeder
S-20A	Sliding T Hdle
S-41A	Flex Hdle
S-52	Ratchet
S-102P	1 1/2" Extension
S-110P	5 1/2" Extension
S-115P	9 3/4" Extension
S-140A	Univ Joint

WSH-2T 3/4" Drive Set:

H-1232	1 12 Pt Skt
H-1234	1 1/16 12 Pt Skt
H-1236	1 1/8 12 Pt Skt
H-1240	1 1/4 12 Pt Skt
H-1242	1 3/16 12 Pt Skt
H-1246	1 7/16 12 Pt Skt
H-1248	1 1/2 12 Pt Skt
H-1252	1 5/8 12 Pt Skt
H-1254	1 11/16 12 Pt Skt
H-1258	1 13/16 12 Pt Skt
H-51	Ratchet
H-104	4" Extension
H-110	8" Extension
MB-130	1/4F x 3/8M Adapter
BS-130	3/8F x 1/2M Adapter
SH-130	1/2F x 3/4M Adapter

Pliers & Screwdrivers

PLS-6 Pliers Set:

PL-46C	6" Diag Cut
PL-76C	6" Chain Nose
PL-218C	Cutter Crimper
PL-370C	7 1/2" Slip Joint
PL-1519C	5" Superjoint
PL-1520C	10" Superjoint
PL-1524C	16" Superjoint

DSS-5 Screwdriver Set:

DS-4	4" Mech. Sq Blade
DS-6	6" Mech. Sq Blade
DS-8	8" Mech. Sq Blade
DS-12	12" Mech. Sq Blade
DS-62	1 1/4" Mech. Sq Blade

DES-5 Screwdriver Set:

DE-43	3" Elec. Rd Blade
DE-46	6" Elec. Rd Blade
DE-48	8" Elec. Rd Blade
DE-50	10" Elec. Rd Blade
DE-52	2" Elec. Rd Blade

DPS-5 Screwdriver Set:

DP-1	3" No. 1 Phil
DP-2	4" No. 2 Phil
DP-3	6" No. 3 Phil
DP-4	8" No. 4 Phil
DP-62	1 1/4" No. 2 Phil

Hammers/Punches/Chisels

HBP-2-0 3/4 lb. Hammer

PC-17 Punch and Chisel Set:

P-4	Pin Punch, 1/8 pt
P-6	Pin Punch, 3/16 pt
P-8	Pin Punch, 1/4 pt
P-14	Sld Punch, 1/8 pt
P-15	Sld Punch, 5/32 pt
P-16	Sld Punch, 3/16 pt
P-25	Tpr Punch, 5/32 pt
P-28	Tpr Punch, 1/4 pt
P-32	Prick Punch, 6"
P-40	Center Punch, 5"
C-10	Cold Chisel, 5/16 pt
C-12	Cold Chisel, 3/8 pt
C-16	Cold Chisel, 1/2 pt
C-20	Cold Chisel, 5/8 pt
C-24	Cold Chisel, 3/4 pt
C-42	Cape, 6 1/4 x 1/4 pt
C-62	Dia pt, 7 x 3/8 pt

Miscellaneous Tools

GS-1	Master Feeler Gauge Set

Williams

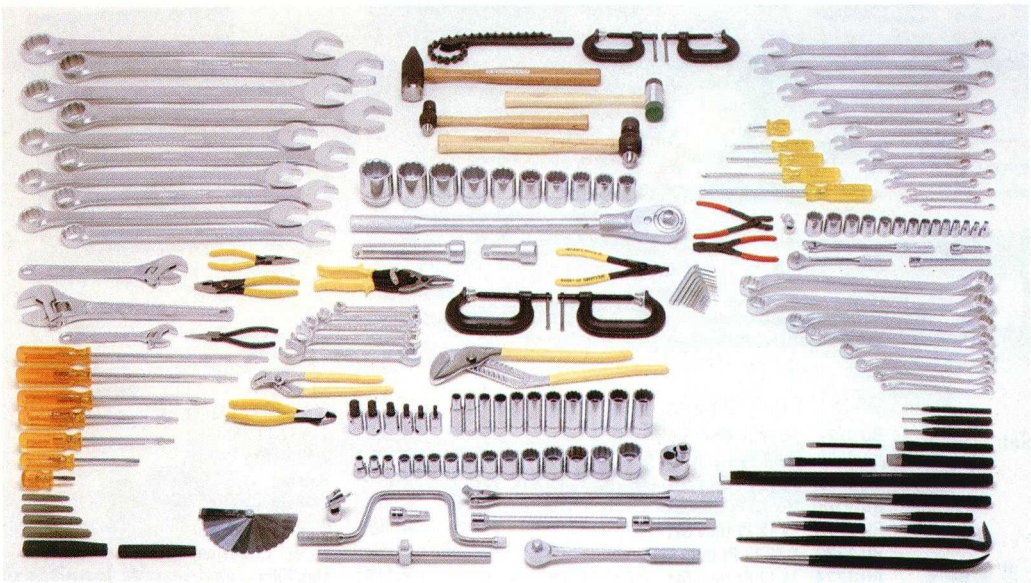
Master Industrial Mechanic's & Machine Repair Set

Designed to provide the tools required for virtually any daily maintenance job, this set offers the right tools to do the task quickly and safely. Socket content with opening sizes from 1/4" to 1 13/16"; flat wrenches from 5/16" to 2".

This set contains all tools included in the base and intermediate industrial mechanic and machine repair sets, pages 11 & 12, plus additional tools required for heavy industrial maintenance requirements.

Set Cat. No. WSC-178 178 Tools with Roller Cabinet TC-708 and Tool Chest TB-7012
EDP No. 49038 Weight 513.6 Lbs. – 232.9 Kg.

Set Cat. No. WSC-178T 178 Tools Only EDP No. 49039 Weight 144.6 Lbs. – 65.6 Kg.



Fractional Wrenches

WS-1172T Comb Wr Set:

1159	5/16
1160	3/8
1161	7/16
1162	1/2
1163	9/16
1164	5/8
1165	11/16
1166	3/4
1167A	13/36
1167	7/8
1168	15/16
1170	1
1171	1 1/16
1172	1 1/8
1173	1 1/4

WS-1174T Comb Wr Set:

1174	1 5/16
1176A	1 3/8
1176	1 7/16
1178	1 1/2
1180	1 5/8
1182	1 11/16
1184	1 3/4
1186	1 13/16
1188	1 7/8
1190	2

WS-14T Flare Nut Wr Set:

XFN-1214	3/8 x 7/16
XFN-1618	1/2 x 9/16
XFN-2022	5/8 x 11/16
XFN-2432	3/4 x 1
XFN-2836	7/8 x 1 1/8

WS-8008T Box Wr Set:

8721	5/16 x 3/8
8725	7/16 x 1/2
8727	9/16 x 5/8
8029B	11/16 x 3/4
8731B	13/16 x 7/8
8033C	15/16 x 1
8037	1 1/16 x 1 1/4
8037A	1 1/8 x 1 5/16

AP-8X	8" Adj Wr
AP-12X	12" Adj Wr
WS-44	13 Skt Hd Keys

Fractional Hand Sockets

WSB-7T 3/8" Drive Set:

B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt
B-1226	13/16 12 Pt Skt
B-1228	7/8 12 Pt Skt
B-1230	15/16 12 Pt Skt
B-1232	1 12 Pt Skt
B-52	Ratchet
B-108	3" Extension
B-110	6" Extension
B-40A	Flex Hdle
B-140A	Univ Joint

WSS-6T 1/2" Drive Set:

ST-1212	3/8 12 Pt Skt
ST-1214	7/16 12 Pt Skt
ST-1216	1/2 12 Pt Skt
ST-1218	9/16 12 Pt Skt
ST-1220	5/8 12 Pt Skt
ST-1222	11/16 12 Pt Skt
ST-1224	3/4 12 Pt Skt
ST-1226	13/16 12 Pt Skt
ST-1228	7/8 12 Pt Skt
ST-1230	15/16 12 Pt Skt
ST-1232	1 12 Pt Skt
ST-1234	1 1/16 12 Pt Skt
ST-1236	1 1/8 12 Pt Skt
ST-1240	1 1/4 12 Pt Skt
SD-1216	1/2 12 Pt Dp Skt
SD-1218	9/16 12 Pt Dp Skt
SD-1220	5/8 12 Pt Dp Skt
SD-1222	11/16 Pt Dp Skt
SD-1224	3/4 12 Pt Dp Skt
SD-1226	13/16 12 Pt Dp Skt
SD-1228	7/8 12 Pt Dp Skt
SD-1230	15/16 12 Pt Dp Skt
SD-1232	1 12 Pt Dp Skt
SD-1234	1 1/16 12 Pt Dp Skt
SD-1236	1 1/8 12 Pt Dp Skt
S-15A	Speeder
S-20A	Sliding T Hdle
S-41A	Flex Hdle
S-52	Ratchet
S-102P	2 1/2" Extension
S-110P	5 1/2" Extension
S-115P	9 3/4" Extension
S-140A	Univ Joint

WSS-15T Hex Bit Skt Set:

SA-8	1/4 Hex Bit Skt
SA-10	5/16 Hex Bit Skt
SA-12	3/8 Hex Bit Skt
SA-16	1/2 Hex Bit Skt
SA-18	9/16 Hex Bit Skt
SA-20	5/8 Hex Bit Skt

S-60D	Stud Remover

WSH-2T 3/4" Drive Set:

H-1232	1 12 Pt Skt
H-1234	1 1/16 12 Pt Skt
H-1236	1 1/8 12 Pt Skt
H-1240	1 1/4 12 Pt Skt
H-1242	1 5/16 12 Pt Skt
H-1246	1 7/16 12 Pt Skt
H-1248	1 1/2 12 Pt Skt
H-1252	1 5/8 12 Pt Skt
H-1254	1 11/16 12 Pt Skt
H-1258	1 13/16 12 Pt Skt
H-51	Ratchet
H-104	4" Extension
H-110	8" Extension

Clamps/Pipe Tools

CC-404	2 Ea. 4" C-Clamps
CC-406	2 Ea. 6" C-Clamps
CW-4	4" Capacity Chain Wr

Pliers & Screwdrivers

PL-8	8" Comb Slip-Jt
PL-1520C	10" Utility Superjoint
PL-1524C	14" Utility Superjoint
PL-76C	Chain Nose Side Cutter
PL-116	6" Needle Nose Pliers
PL-57C	7" Diagonal Cutting
PL-1515	8" Lock Ring Pliers
PL-1600C	Snap Ring Pliers Set

DSS-5 Screwdriver Set:

DS-4	4" Mech. Sq Blade
DS-6	6" Mech. Sq Blade
DS-8	8" Mech. Sq Blade
DS-12	12" Mech. Sq Blade
DS-62	1 1/4" Mech. Sq Blade

DPS-5 Screwdriver Set:

DP-1	3" No. 1 Phil
DP-2	4" No. 2 Phil
DP-3	6" No. 3 Phil
DP-4	8" No. 4 Phil
DP-62	1 1/4" No. 2 Phil

DS-10	10" Mech. Sq Bl
DS-6B	6" Mech. Sq Bl

Hammers/Punches/Chisels

HSF-150-A	12 oz. Ham Body
HSF-15M	1-1/2" Ham Tip – Med
HSF-15T	1-1/2" Ham Tip – Tough
CP-3	3 Lb. Cross Pein Ham
HP-8	8 oz. Ball Pein Ham
HP-16	1 Lb. Ball Pein Ham

PC-8 Punch and Chisel Set:

P-4	Pin Punch, 1/8 pt
P-6	Pin Punch, 3/16 pt
P-8	Pin Punch, 1/4 pt
P-15	Sld Punch, 5/32 pt
P-40	Center Punch, 5"
C-10	Cold Chisel, 5/16 pt
C-16	Cold Chisel, 1/2 pt
C-24	Cold Chisel, 3/4 pt

P-28	1/4" Lg Tpr Punch
P-17	1/4" Solid Punch
P-32	Prick Punch
C-28	7/8" Cold Chisel
C-126	3/4" Long Style Chisel
C-82	16" Pinch Bar
C-718	18" Roll Bar

Miscellaneous Tools

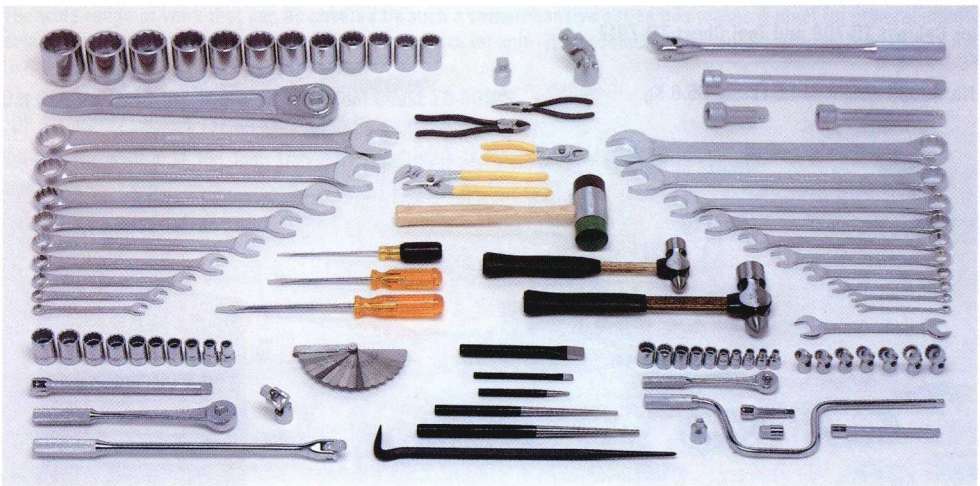
GS-1	Master Feeler Gauge Set
EXS-30	6 piece Scr Ext Set

Williams

Construction Equipment Repair Set

Set Cat. No. WSC-94 94 Tools with Tool Chest TB-6006R
EDP No. 49040 Weight 131.3 Lbs. – 59.6 Kg.

Set Cat. No. WSC-94T 94 Tools Only EDP No. 49041 Weight 76.3 Lbs. – 34.6 Kg.



Fractional Wrenches

WS-1172T Combination Wrench Set:

1159	5/16
1160	3/8
1161	7/16
1162	1/2
1163	9/16
1164	5/8
1165	11/16
1166	3/4
1167A	13/16
1167	7/8
1168	15/16
1170	1
1171	1 1/16
1172	1 1/8
1173	1 1/4
1174	1 5/16 Comb Wr
1176A	1 3/8 Comb Wr
1178	1 1/2 Comb Wr
1180	1 5/8 Comb Wr

Fractional Hand Sockets

WSB-1T 3/8" Drive Set:

B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt
B-52	Ratchet
B-108	3" Extension

WSB-12T Univ Skt Set:

BU-1212	3/8 12 Pt Univ Skt
BU-1214	7/16 12 Pt Univ Skt
BU-1216	1/2 12 Pt Univ Skt
BU-1218	9/16 12 Pt Univ Skt
BU-1220	5/8 12 Pt Univ Skt
BU-1222	11/16 12 Pt Univ Skt
BU-1224	3/4 12 Pt Univ Skt
B-15	Speeder
B-110	6" Extension
BS-130	3/8F x 1/2M Adapter
BS-131	1/2F x 3/8M Adapter

WSS-3T 1/2" Drive Set:

ST-1214	7/16 12 Pt Skt
ST-1216	1/2 12 Pt Skt
ST-1218	9/16 12 Pt Skt
ST-1220	5/8 12 Pt Skt
ST-1222	11/16 12 Pt Skt
ST-1224	3/4 12 Pt Skt
ST-1226	13/16 12 Pt Skt
ST-1228	7/8 12 Pt Skt
ST-1230	15/16 12 Pt Skt
ST-1236	1 1/8 12 Pt Skt
S-52	Ratchet
S-115P	9 3/4" Extension
S-41A	Flex Hdle
S-140A	Univ Joint

WSH-3T 3/4" Drive Set:

H-1232	1 12 Pt Skt
H-1234	1 1/16 12 Pt Skt
H-1236	1 1/8 12 Pt Skt
H-1240	1 1/4 12 Pt Skt
H-1242	1 5/16 12 Pt Skt
H-1246	1 7/16 12 Pt Skt
H-1248	1 1/2 12 Pt Skt
H-1252	1 5/8 12 Pt Skt
H-1254	1 11/16 12 Pt Skt
H-1258	1 13/16 12 Pt Skt
H-1260	1 7/8 12 Pt Skt
H-1264	2 12 Pt Skt
H-51	Ratchet
H-104	4" Extension
H-110	8" Extension
H-115	15 1/2" Extension
H-41A	Flex Hdle
H-140A	Univ Joint
SH-130	1/2F x 3/4M Adapter

Pliers & Screwdrivers

PL-6	6" Combination Slip-Joint Pliers
PL-1520C	10" Utility Superjoint Pliers
PL-76	6 1/2" Chain Nose Pliers
PL-47	7 1/2" Diag Cutting Pliers
DR-26	6" Mech. Rd Blade
DR-28	8" Mech. Rd Blade
DEG-46	6" Elec. Rd Blade

Hammers/Punches/Chisels

HSF-205-A	2 lb. Hammer Body
HSF-20M	2" Med. Tip
HSF-20T	2" Tough Tip
HP-12	12 oz. Ball Pein
HP-32	2 lb. Ball Pein
P-26	10" Taper Punch
P-29	16" Taper Punch
P-40	5" Center Punch
C-12	3/8" Cold Chisel
C-24	3/4" Cold Chisel
C-715	15 1/2" Roll Bar

Miscellaneous Tools

GS-1	Master Feeler Gauge Set

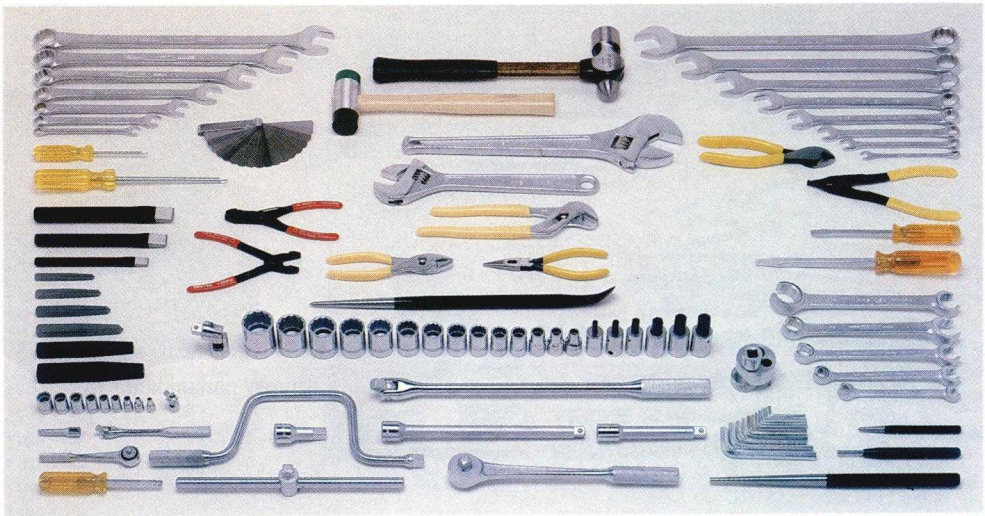
Williams
Base Industrial Mechanic's & Machine Repair Set

This set has a general assortment of hand tools needed to perform basic maintenance and machine repair. Socket content with openings from 5/32" to 1 1/4"; flat wrenches from 5/16" to 1 1/4".

The TB-6024R tool chest provides adequate room for additional tools required for special service and maintenance applications. For full specifications, see page 18.

Set Cat. No. WSC-106 106 Tools with Tool Chest TB-6024R
EDP No. 49042 Weight 100.2 Lbs. – 45.5 Kg.

Set Cat. No. WSC-106T 106 Tools Only EDP No. 49043 Weight 42.2 Lbs. – 19.1 Kg.



Fractional Wrenches

WS-1172T Combination Wrench Set:

1159	5/16
1160	3/8
1161	7/16
1162	1/2
1163	9/16
1164	5/8
1165	11/16
1166	3/4
1167A	13/16
1167	7/8
1168	15/16
1170	1
1171	1 1/16
1172	1 1/8
1173	1 1/4

WS-14T Flare Nut Wrench Set:

XFN-1214	3/8 x 7/16
XFN-1618	1/2 x 9/16
XFN-2022	5/8 x 11/16
XFN-2432	3/4 x 1
XFN-2836	7/8 x 1 1/8

AP-8X	8" Adj. Wr
AP-12X	12" Adj. Wr
WS-44	13 Skt Hd Keys

Fractional Hand Sockets

WSM-2T 1/4" Drive Set:

M-605	5/32 6 Pt Skt
M-606	3/16 6 Pt Skt
M-608	1/4 6 Pt Skt
M-1210	5/16 12 Pt Skt
M-1211	11/32 12 Pt Skt
M-1212	3/8 12 Pt Skt
M-1214	7/16 12 Pt Skt
M-1216	1/2 12 Pt Skt
M-1218	9/16 12 Pt Skt
M-42A	Flex Hdle
M-52	Ratchet
M-102	2" Extension
M-106	Spinner Hdle
M-140A	Univ Joint Skt

WSS-5T 1/2" Drive Set:

ST-1212	3/8 12 Pt Skt
ST-1214	7/16 12 Pt Skt
ST-1216	1/2 12 Pt Skt
ST-1218	9/16 12 Pt Skt
ST-1220	5/8 12 Pt Skt
ST-1222	11/16 12 Pt Skt
ST-1224	3/4 12 Pt Skt
ST-1226	13/16 12 Pt Skt
ST-1228	7/8 12 Pt Skt
ST-1230	15/16 12 Pt Skt
ST-1232	1 12 Pt Skt
ST-1234	1 1/16 12 Pt Skt
ST-1236	1 1/8 12 Pt Skt
ST-1240	1 1/4 12 Pt Skt
S-15A	Speeder
S-20A	Sliding Tee Hdle
S-41A	Flex Hdle
S-52	Ratchet
S-102P	2 1/2" Extension
S-110P	5 1/2" Extension
S-115P	9 3/4" Extension
S-140A	Univ Joint

WSS-15T 1/2" Hex Bit Socket Set:

SA-8	1/4 Hex Bit Skt
SA-10	5/16 Hex Bit Skt
SA-12	3/8 Hex Bit Skt
SA-16	1/2 Hex Bit Skt
SA-18	9/16 Hex Bit Skt
SA-20	5/8 Hex Bit Skt

S-60D	Stud Remover

Pliers & Screwdrivers

PL-8	8" Combination Slip-joint Pliers
PL-1520C	10" Superjoint Pliers
PL-76C	Chain Nose Side Cutter Pliers
PL-57C	7" Diagonal Cutting Pliers
PL-1515	8" Lock Ring Pliers
PL-1600C	Snap Ring Pliers Set
DS-4	4" Mech. Sq Blade Screwdriver
DS-6B	6" Mech. Sq Blade Screwdriver
DP-1	3" No. 1 Phil Screwdriver
DP-3	6" No. 3 Phil Screwdriver

Hammers/Punches/Chisels

HSF-150-A	12 oz. Hammer Body
HSF-15N	1 1/2" Hammer Tip – Medium
HSF-15T	1 1/2" Hammer Tip – Tough
HP-16	1 Lb. Ball Pein Hammer
P-8	Pin, 1/4 pt
P-28	Tpr, 1/4 pt
P-40	Center Punch, 5"
C-16	Cold Chisel, 1/2 pt
C-24	Cold Chisel, 3/4 pt
C-28	Cold Chisel, 7/8 pt
C-82	16" Pinch Bar

Miscellaneous Tools

GS-1	Master Feeler Gauge Set
EXS-30	6 Piece Screw Extractor Set

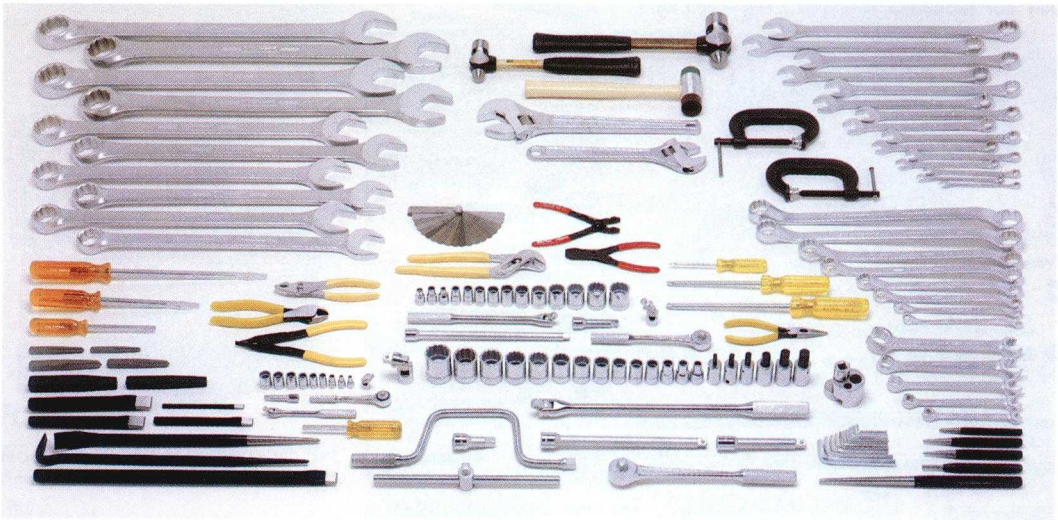
Williams
Intermediate Industrial Mechanic's & Machine Repair Set

Content of this set will provide all of the tools required to service small to medium equipment. Socket content will service fasteners from 1/8" to 1 1/8"; flat wrenches from 5/16" to 1 1/2".

TB-6010R will provide space for the items contained in the set plus additional tools and supplies. The TB-6010R chest will stand up to the toughest use.

Set Cat. No. WSC-153 153 Tools with Tool Chest TB-6010R
EDP No. 49044 Weight 175.9 Lbs. – 79.8 Kg.

Set Cat. No. WSC-153T 153 Tools Only EDP No. 49045 Weight 105.9 Lbs. – 48.0 Kg.



Fractional Wrenches

WS-1172T Comb Wr Set:

1159	5/16
1160	3/8
1161	7/16
1162	1/2
1163	9/16
1164	5/8
1165	11/16
1166	3/4
1167A	13/16
1167	7/8
1168	15/16
1170	1
1171	1 1/16
1172	1 1/8
1173	1 1/4

WS-1174T Comb Wr Set:

1174	1 5/16
1176A	1 3/8
1176	1 7/16
1178	1 1/2
1180	1 5/8
1182	1 11/16
1184	1 3/4
1186	1 13/16
1188	1 7/8
1190	2

WS-8008T Box Wr Set:

8721	5/16 x 3/8
8725	7/16 x 1/2
8727	9/16 x 5/8
8029B	11/16 x 3/4
8731B	13/16 x 7/8
8033C	15/16 x 1
8037	1 1/16 x 1 1/4
8037A	1 1/8 x 1 5/16

WS-14T Flare Nut Wr Set:

XFN-1214	3/8 x 7/16
XFN-1618	1/2 x 9/16
XFN-2022	5/8 x 11/16
XFN-2432	3/4 x 1
XFN-2836	7/8 x 1 1/8

AP-8X	8" Adj. Wr
AP-12X	12" Adj. Wr
WS-44	13 Skt Hd Keys

Fractional Hand Sockets

WSM-2T 1/4" Drive Set:

M-605	5/32 6 Pt Skt
M-606	3/16 6 Pt Skt
M-608	1/4 6 Pt Skt
M-1210	5/16 12 Pt Skt
M-1211	11/32 12 Pt Skt
M-1212	3/8 12 Pt Skt
M-1214	7/16 12 Pt Skt
M-1216	1/2 12 Pt Skt
M-1218	9/16 12 Pt Skt
M-42A	Flex Hdle
M-52	Ratchet
M-102	2" Extension
M-106	Spinner Hdle
M-140A	Univ Joint

WSB-7T 3/8" Drive Set:

B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt
B-1226	13/16 12 Pt Skt
B-1228	7/8 12 Pt Skt
B-1230	15/16 12 Pt Skt
B-1232	1 12 Pt Skt
B-52	Ratchet
B-108	3" Extension
B-110	6" Extension
B-40A	Flex Hdle
B-140A	Univ Joint

WSS-5T 1/2" Drive Set:

ST-1212	3/8 12 Pt Skt
ST-1214	7/16 12 Pt Skt
ST-1216	1/2 12 Pt Skt
ST-1218	9/16 12 Pt Skt
ST-1220	5/8 12 Pt Skt
ST-1222	11/16 12 Pt Skt
ST-1224	3/4 12 Pt Skt
ST-1226	13/16 12 Pt Skt
ST-1228	7/8 12 Pt Skt
ST-1230	15/16 12 Pt Skt
ST-1232	1 12 Pt Skt
ST-1234	1 1/16 12 Pt Skt
ST-1236	1 1/8 12 Pt Skt
ST-1240	1 1/4 12 Pt Skt
S-15A	Speeder
S-20A	Sliding T Hdle
S-41A	Flex Hdle
S-52	Ratchet
S-102P	2 1/2" Extension
S-110P	5 1/2" Extension
S-115P	9 3/4" Extension
S-140A	Univ Joint

WSS-15T Hex Bit Socket Set:

SA-8	1/4 Hex Bit Skt
SA-10	5/16 Hex Bit Skt
SA-12	3/8 Hex Bit Skt
SA-16	1/2 Hex Bit Skt
SA-18	9/16 Hex Bit Skt
SA-20	5/8 Hex Bit Skt

S-60D	Stud Remover

Clamps

CC-406	2 Ea. 6" C-Clamp

Pliers & Screwdrivers

PL-8	8" Comb Slip-Jt Pliers
PL-1520C	10" Utility Superjoint
PL-76C	6 1/2" Chain Nose Side Cutter
PL-57C	7" Diagonal Cutting
PL-1515	8" Lock Ring Pliers
PL-1600C	Snap Ring Pliers Set
DS-4	4" Mech. Sq Blade
DS-6B	6" Mech. Sq Blade
DS-10	10" Mech. Sq Blade
DP-1	3" No. 1 Phil
DP-3	6" No. 3 Phil
DP-4	8" No. 4 Phil

Hammers/Punches/Chisels

HSF-150-A	12 oz. Hammer Body
HSF-15M	1-1/2" Ham Tip – Med
HSF-15T	1-1/2" Ham Tip – Tough
HP-8	8 oz. Ball Pein Ham
HP-16	1 Lb. Ball Pein Ham
P-8	1/4" Pin Punch
P-17	1/4" Solid Punch
P-28	1/4" Taper Punch
P-32	Prick Punch
P-40	Center Punch
C-10	Long Cold Chisel, 5/16 pt
C-16	Cold Chisel, 1/2 pt
C-24	Cold Chisel, 3/4 pt
C-28	Cold Chisel, 7/8 pt
C-125	Long Style Chisel, 3/4 pt
C-82	16" Pinch Bar
C-718	18" Roll Bar

Miscellaneous Tools

EXS-30	6 piece Scr Ext Set
GS-1	Master Feeler Gauge Set.

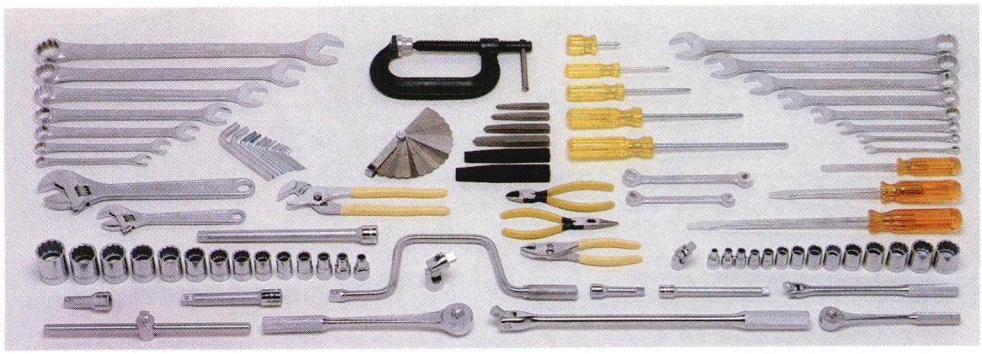
Williams
General Industrial Mechanic's Set

A good set for day-to-day maintenance and service on small to medium size equipment. Socket content with openings from 1/4" to 1 1/4"; flat wrenches from 5/16" to 1 1/4".

The TB-6024R provides room for this set plus additional tools and equipment.

Set Cat. No. WSC-93 93 Tools with Tool Chest TB-6024R
EDP No. 49046 Weight 92.3 Lbs. – 41.9 Kg.

Set Cat. No. WSC-93T 93 Tools Only EDP No. 49047 Weight 34.3 Lbs. – 15.6 Kg.



Fractional Wrenches

WS-1172T Combination Wrench Set:

1159 5/16
1160 3/8
1161 7/16
1162 1/2
1163 9/16
1164 5/8
1165 11/16
1166 3/4
1167A 13/16
1167 7/8
1168 15/16
1170 1
1171 1 1/16
1172 1 1/8
1173 1 1/4

AP-6X 6" Adj Wr
AP-10X 10" Adj Wr
WS-44 13 Skt Hd Keys
XFN-1214 3/8 x 7/16 Flare Nut Wr
XFN-1618 1/2 x 9/16 Flare Nut Wr

Fractional Hand Sockets

WSB-7T 3/8" Drive Set:

B-1208 1/4 12 Pt Skt
B-1210 5/16 12 Pt Skt
B-1211 11/32 12 Pt Skt
B-1212 3/8 12 Pt Skt
B-1214 7/16 12 Pt Skt
B-1216 1/2 12 Pt Skt
B-1218 9/16 12 Pt Skt
B-1220 5/8 12 Pt Skt
B-1222 11/16 12 Pt Skt
B-1224 3/4 12 Pt Skt
B-1226 13/16 12 Pt Skt
B-1228 7/8 12 Pt Skt
B-1230 15/16 12 Pt Skt
B-1232 1 12 pt Skt
B-52 Ratchet
B-108 3" Extension
B-110 6" Extension
B-40A Flex Hdle
B-140A Univ Joint

WSS-5T 1/2" Drive Set:

ST-1212 3/8 12 Pt Skt
ST-1214 7/16 12 Pt Skt
ST-1216 1/2 12 Pt Skt
ST-1218 9/16 12 Pt Skt
ST-1220 5/8 12 Pt Skt
ST-1222 11/16 12 Pt Skt
ST-1224 3/4 12 Pt Skt
ST-1226 13/16 12 Pt Skt
ST-1228 7/8 12 Pt Skt
ST-1230 15/16 12 Pt Skt
ST-1232 1 12 Pt Skt
ST-1234 1 1/16 12 Pt Skt
ST-1236 1 1/8 12 Pt Skt
ST-1240 1 1/4 12 Pt Skt
S-15A Speeder
S-20A Sliding T Hdle
S-41A Flex Hdle
S-52 Ratchet
S-102P 2 1/2" Extension
S-110P 5 1/2" Extension
S-115P 9 3/4" Extension
S-140A Univ Joint

Pliers & Screwdrivers

PL-8 8" Combination Slip-Joint Pliers
PL-1520C 10" Utility Superjoint Pliers
PL-76C 6-1/2" Chain Nose Cutter Pliers
PL-46C 6" Diagonal Cutting Pliers

DPS-5 Phillips Screwdriver Set:

DP-1 3" No. 1 Phil Screwdriver
DP-2 4" No. 2 Phil Screwdriver
DP-3 6" No. 3 Phil Screwdriver
DP-4 8" No. 4 Phil Screwdriver
DP-62 1 1/4" Phil Screwdriver

DS-4 4" Mech. Sq Blade Screwdriver
DS-6B 6" Mech. Sq Blade Screwdriver
DS-10 10" Mech. Sq Blade Screwdriver

Miscellaneous Tools

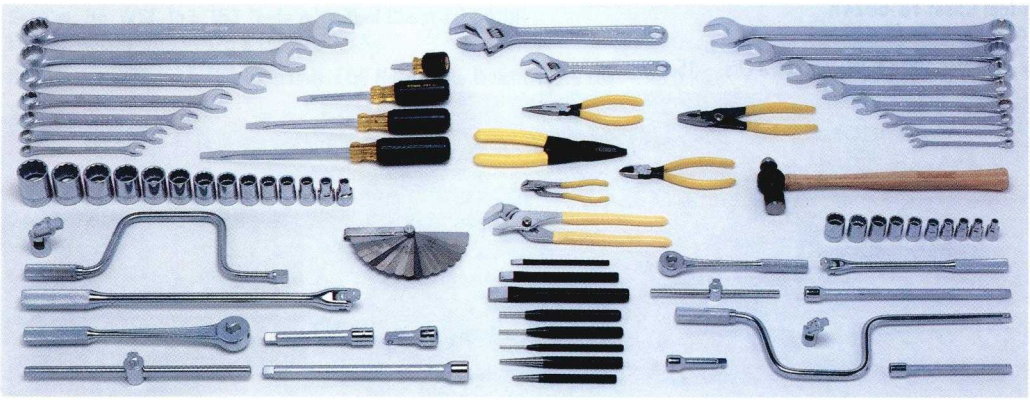
CC-406 6" Deep Throat C-Clamp
GS-1 Master Feeler Gauge Set
EXS-30 6 piece Screw Extractor Set

Williams

General Service Set

Set Cat. No. WSC-77 77 Tools with Tool Box TB-8T
EDP No. 49048 Weight 48.2 Lbs. – 21.9 Kg.

Set Cat. No. WSC-77T 77 Tools Only EDP No. 49049 Weight 33.6 Lbs. – 15.2 Kg.



Fractional Wrenches

WS-1172T Combination Wrench Set:

1159	5/16
1160	3/8
1161	7/16
1162	1/2
1163	9/16
1164	5/8
1165	11/16
1166	3/4
1167A	13/16
1167	7/8
1168	15/16
1170	1
1171	1 1/16
1172	1 1/8
1173	1 1/4

AP-6X	6" Adj Wr
AP-8X	8" Adj Wr

Fractional Hand Sockets

WSB-4T 3/8" Drive Set:

B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt
B-40A	Flex Hdle
B-52	Ratchet
B-108	3" Extension
B-110	6" Extension
B-140A	Univ Joint

B-15	Speeder
B-20A	Sliding T Hdle
B-115	10 1/2" Extension

WSS-5T 1/2" Drive Set:

ST-1212	3/8 12 Pt Skt
ST-1214	7/16 12 Pt Skt
ST-1216	1/2 12 Pt Skt
ST-1218	9/16 12 Pt Skt
ST-1220	5/8 12 Pt Skt
ST-1222	11/16 12 Pt Skt
ST-1224	3/4 12 Pt Skt
ST-1226	11/16 12 Pt Skt
ST-1228	7/8 12 Pt Skt
ST-1230	15/16 12 Pt Skt
ST-1232	1 12 Pt Skt
ST-1234	1 1/16 12 Pt Skt
ST-1236	1 1/8 12 Pt Skt
ST-1240	1 1/4 12 Pt Skt
S-15A	Speeder
S-41A	Flex Hdle
S-52	Ratchet
S-110P	5 1/2" Extension
S-115P	9 3/4" Extension
S-140A	Univ Joint
S-20A	Sliding T Hdle
S-102P	2 1/2" Extension

Pliers & Screwdrivers

PLS-6 General Service Pliers Set:

PL-46C	6" Diag Cut Pliers
PL-76C	6" Long Chain Nose Pliers
PL-218C	Cutter Crimper Pliers
PL-370C	7 1/2 Slip Joint Pliers
PL-1519C	5" Superjoint Pliers
PL-1520C	10" Superjoint Pliers

DSGS-4 Mechanic's Cushion Grip Screwdriver Set:

DSG-4	4" Mech. Sq Blade
DSG-6	6" Mech. Sq Blade
DSG-8	8" Mech. Sq Blade
DSG-62	1 1/4" Mech. Sq Blade

Hammers/Punches/Chisels

HBP-2-0 3/4 lb Hammer

PC-8 Punch and Chisel Set:

P-4	Pin, 1/8 pt
P-6	Pin, 3/16 pt
P-8	Pin, 1/4 pt
P-15	Sld, 5/32 pt
P-40	Center Punch, 5"
C-10	Cold Chisel, 5/16 pt
C-16	Cold Chisel, 1/2 pt
C-24	Cold Chisel, 3/4 pt

Miscellaneous Tools

GS-1	Master Feeler Gauge Set

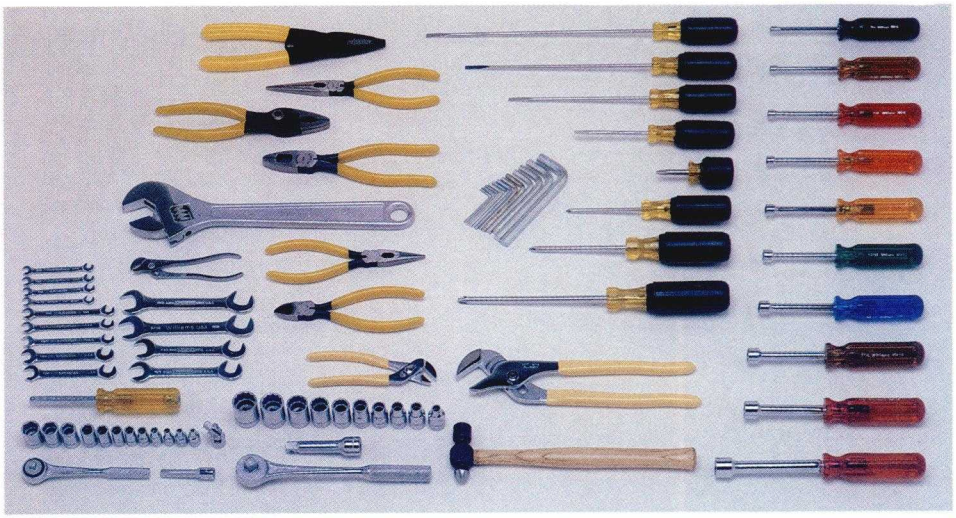
Williams
Electrician's Set

Designed specifically for the industrial maintenance electrician, this set contains all of the tools required for normal electrical service and repair.

The TB-8T hip roof tool box provides room for this set, plus additional tools and equipment required by the industrial electrician. Two latches and a hasp provide security. A top handle allows the box to be carried with ease and safety.

Set Cat. No. WSC-84 84 Tools with Tool Box TB-8T
EDP No. 49050 Weight 27 Lbs. – 12.2 Kg.

Set Cat. No. WSC-84T 84 Tools Only EDP No. 49051 Weight 12 Lbs. – 5.4 Kg.



Fractional Wrenches

WS-1142PT Miniature Open End Wrench Set:

1112	3/16
1113	13/64
1114	7/32
1115	15/64
1116	1/4
1118	9/32
1120	5/16
1122	11/32
1124	3/8
1128	7/16
1132	1/2
1136	9/16
1140	5/8
PL-1519	5" Superjoint Pliers

AP-6X	6" Adj Wr
WS-44	13 Skt Hd Keys

Fractional Hand Sockets

WSM-2HT 1/4" Drive Set:

M-604	1/8 6 Pt Skt
M-605	5/32 6 Pt Skt
M-606	3/16 6 Pt Skt
M-607	7/32 6 Pt Skt
M-608	1/4 6 Pt Skt
M-609	9/32 6 Pt Skt
M-610	5/16 6 Pt Skt
M-611	11/32 6 Pt Skt
M-612	3/8 6 Pt Skt
M-614	7/16 6 Pt Skt
M-616	1/2 6 Pt Skt
M-618	9/16 6 Pt Skt
M-52	Ratchet
M-102	2" Extension
M-106	Spinner Hdle
M-140A	Univ Joint

MB-131 3/8F x 1/4M Adapter

WSB-1T 3/8" Drive Set:

B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt
B-52	Ratchet
B-108	3" Extension

Pliers & Screwdrivers

PLS-6 General Service Pliers Set:

PL-46C	Diag Cutting Plier
PL-76C	Long Chain Nose Plier
PL-218C	Cutter-Crimper Pliers
PL-370C	Slip-Joint Pliers
PL-1519C	5" Superjt Pliers
PL-1520C	10" Utility Superjt Pliers

PL-77C	7" Chain Nose Side Cutter Pliers
PL-204C	7" Elec. Side Cutter Pliers

DEGS-4 Elec. Rd Blade Screwdriver Set:

DEG-43	3" Elec. Rd Blade
DEG-46	6" Elec. Rd Blade
DEG-48	8" Elec. Rd Blade
DEG-50	10" Elec. Rd Blade

DPGS-4 Phillips Screwdriver Set:

DPG-1	3" No. 1 Phil
DPG-2	4" No. 2 Phil
DPG-3	6" No. 3 Phil
DPG-62	1 1/4" No. 2 Phil

NDS-10 Nut Driver Set:

ND-6	3/16 Opening
ND-7	7/32 Opening
ND-8	1/4 Opening
ND-9	9/32 Opening
ND-10	5/16 Opening
ND-11	11/32 Opening
ND-12	3/8 Opening
ND-14	7/16 Opening
ND-16	1/2 Opening
ND-18	9/16 Opening

Miscellaneous Tools

HP-4 4 oz. Ball Pein Hammer

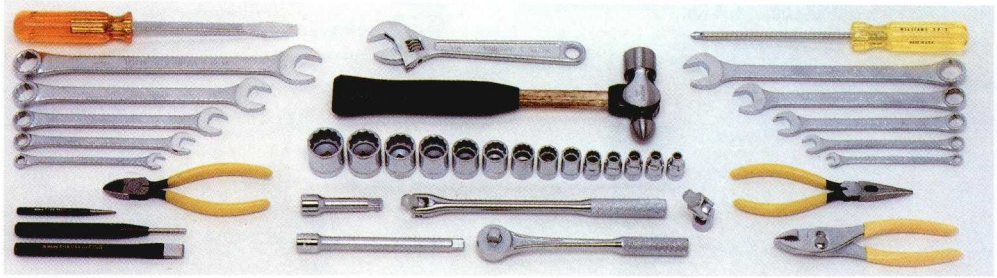
Williams Starter Industrial Mechanic's Set

A basic set for the new mechanic or apprentice. Socket content will handle fasteners from 1/4" to 1"; flat wrenches from 1/4" to 13/16".

The TB-9T provides sufficient room for this set plus additional tools and supplies. Two latches and a hasp provide tool security. A top handle allows the set to be carried to the job with ease and safety.

Set Cat. No. WSC-39 39 Tools with Tool Box TB-9T
EDP No. 99843 Weight 67.4 Lbs. – 30.6 Kg.

Set Cat. No. WSC-39T 39 Tools EDP No. 99842 Weight 52.8 Lbs. – 24.0 Kg.



Fractional Wrenches

WS-1170T Combination Wrench Set:

1160 3/8
1161 7/16
1162 1/2
1163 9/16
1164 5/8
1165 11/16
1166 3/4

1158 1/4
1159 5/16
1167A 13/16
AP-6X 6" Adj Wr

Fractional Hand Sockets

WSB-7T 3/8" Drive Set:

B-1208 1/4 12 Pt Skt
B-1210 5/16 12 Pt Skt
B-1211 11/32 12 Pt Skt
B-1212 3/8 12 Pt Skt
B-1214 7/16 12 Pt Skt
B-1216 1/2 12 Pt Skt
B-1218 9/16 12 Pt Skt
B-1220 5/8 12 Pt Skt
B-1222 11/16 12 Pt Skt
B-1224 3/4 12 Pt Skt
B-1226 13/16 1/2 Pt Skt
B-1228 7/8 12 Pt Skt
B-1230 15/16 12 Pt Skt
B-1232 1 12 Pt Skt
B-52 Ratchet
B-108 3" Extension
B-110 6" Extension
B-40A Flex Hdle
B-140A Univ Joint

Pliers & Screwdrivers

PL-8 8" Combination Slip-Joint Pliers
PL-46C 6" Diagonal Cutting Pliers
PL-76C 6 1/2" Chain Nose Side Cutter Pliers
DS-6B 6" Mech. Sq Blade Screwdriver
DP-3 6" No. 3 Phillips Screwdriver

Hammers/Punches/Chisels

HP-12 12 oz. Ball Pein Hammer
P-6 3/16" Pin Punch
P-38 Center Punch
C-16 1/2" Cold Chisel

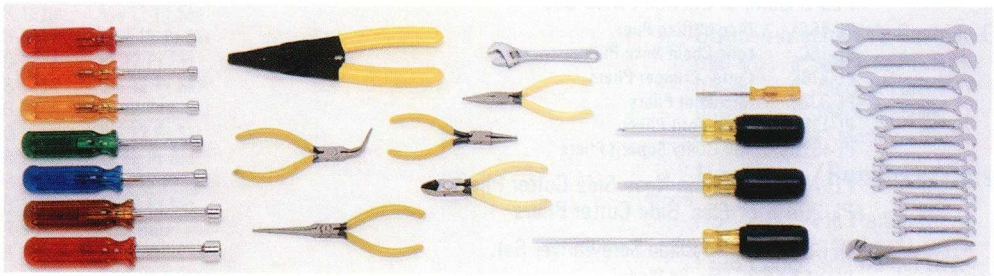
Williams Electronic Set

The tool selection in this set provides the electronic technician with the basic tools required to service small electro-mechanical and electronic components.

TB-7 Box is made from high quality sheet steel and finished with durable baked on red enamel.

Set Cat. No. WSC-32 32 Tools with Tool Box TB-7
EDP No. 99857 Weight 10.5 Lbs. – 4.7 Kg.

Set Cat. No. WSC-32T 32 Tools Only EDP No. 99856 Weight 4.1 Lbs. – 1.9 Kg.



Fractional Wrenches

WS-1142PT Miniature Open End Wrench Set:

1112 3/16
1113 13/64
1114 7/32
1115 15/64
1116 1/4
1118 9/32
1120 5/16
1122 11/32
1124 3/8
1128 7/16
1132 1/2
1136 9/16
1140 5/8
PL-1519 5" Miniature Pliers

AP-4 4" Adj Wr

Pliers & Screwdrivers

PL-116C 6" Lg Needle Nose Pliers
PL-127C 5" Lg Curved Needle Nose Pliers
PL-44C 4 1/2" Diag Cutting Pliers
PLM-5C 4 3/4" Round Nose Pliers
PLM-4C 4 1/2" Duckbill Pliers
PL-218C 8 1/4" Cutter-Crimper

NDS-7 Nutdriver Set:

ND-8 1/4 Opening
ND-9 9/32 Opening
ND-10 5/16 Opening
ND-11 11/32 Opening
ND-12 3/8 Opening
ND-14 7/16 Opening
ND-16 1/2 Opening

DE-52 2" Elec. Rd Blade Screwdriver
DEG-43 3" Elec. Rd Blade Screwdriver
DEG-46 6" Elec. Rd Blade Screwdriver
DPG-1 3" No. 1 Phil Screwdriver

Williams®

Section 2

Tool Storage

Williams wide variety of boxes, cabinets, chests and vinyl tool rolls are designed to satisfy the industrial mechanic's tool storage needs. A full line of heavy duty and extra heavy duty boxes, cabinets and chests provide convenient and secure tool storage.

Quality Williams tool storage for quality Williams hand tools.

Williams
2 Drawer Portable Chest

Cat. No. TB-6022
EDP No. 59266
Weight 19 Lbs. – 8.6 Kg.

Removable tote tray and hinged top with carrying handle provide portability and large capacity.

Dimensions	Width	Depth	Height
Overall	20 9/16	8 1/2	9 1/2
2 Drawers (each)	17 7/8	7 3/8	2 1/4
Tote Tray	18 9/16	7 11/16	3 3/16

Williams
6 Drawer Chest

Cat. No. TB-6006R
EDP No. 59275
Weight 55 Lbs. – 25.0 Kg.

Offers storage convenience and versatility. Tumbler lock secures all drawers, or can be used to separately lock middle drawer only.

Dimensions	Width	Depth	Height
Overall	26 1/8	12 1/8	15
Drawers			
1 Top	4 1/2	10 3/4	1 7/8
2 Top (each)	7 7/8	10 3/4	1 7/8
2 Middle (each)	22 1/2	10 3/4	1 7/8
1 Bottom	22 1/2	10 3/4	2 7/8
Tote Tray	18 9/16	7 11/16	3 3/16

Williams
6 Drawer Drop Front Chest

Cat. No. TB-6024R
EDP No. 59270
Weight 58 Lbs. – 26.3 Kg.

The watershed cover and drop front panel completely cover and lock the drawers to keep tools clean, dry and secure.

Dimensions	Width	Depth	Height
Overall	26 1/8	12 1/8	15
Drawers			
1 Top	4 1/2	10 3/4	1 7/8
2 Top (each)	7 7/8	10 3/4	1 7/8
2 Middle (each)	22 1/2	10 3/4	1 7/8
1 Bottom	22 1/2	10 3/4	2 7/8
Tote Tray	18 9/16	7 11/16	3 3/16

Williams
10 Drawer Chest

Cat. No. TB-6010R
EDP No. 59276
Weight 70 Lbs. – 31.8 Kg.

Our largest capacity standard chest offers maximum flexibility for tool storage. Separate tote tray.

Dimensions	Width	Depth	Height
Overall	26 1/8	12 1/8	19
Drawers			
1 Top	4 1/2	10 3/4	6 1/8
6 Top (each)	7 7/8	10 3/4	1 7/8
2 Middle (each)	22 1/2	10 3/4	1 7/8
1 Bottom	22 1/2	10 3/4	2 7/8
Tote Tray	18 9/16	7 11/16	3 3/16

Williams
4 Drawer Step-up Chest

Cat. No. TB-6001R
EDP No. 59278
Weight 37 Lbs. – 16.8 Kg.

Four drawer supplemental chest can be used with most Williams tool chests and roller cabinets to increase storage capacity. All drawers are locked with single tumbler lock.

Dimensions	Width	Depth	Height
Overall	26 1/8	12 1/8	11 1/2
Drawers (each)	22 1/2	10 3/4	1 7/8

Williams
Aluminum Tool Box

Cat. No. TB-22A
EDP No. 15520
Weight 22.0 Lbs. – 10.0 Kg.

Aluminum tool box – stainless steel handles – 1 top, two side handles with rubber grips for comfort. Made of corrosion resistant 1/8" aluminum alloy with heli-arc welded seams. A gasket on the inside of the top lid provides a tight seal. Comes with hasp for locking and separate tote tray.

Dimensions	Width	Depth	Height
Overall	22	10 1/4	10 1/4

Williams

3 Drawer Roller Cabinet

Cat. No. TC-603CR
EDP No. 59282
Weight 92 Lbs. – 41.8 Kg.

Replacement Casters:
Swivel Casters: **Cat. No. TC-603C-1**
EDP No. 51089
Fixed Casters: **Cat. No. TC-603C-2**
EDP No. 51090

Three large standard drawers plus a drop-door bulk storage compartment for large equipment. Single tumbler lock secures all drawers and storage compartment door.

Dimensions	Width	Depth	Height
Overall	26½	18	30⅛*
Drawers			
2 Top (each)	22¼	16¾	3⅛
1 Middle	22¼	16¾	6½
Compartment	23½	17⅛	9¾
Caster Dia. 3″			

Williams

5 Drawer Roller Cabinet

Cat. No. TC-605CAR
EDP No. 59287
Weight 120 Lbs. – 54.5 Kg.

Replacement Casters:
Swivel Casters: **Cat. No. TC-612C-1**
EDP No. 51143
Fixed Casters: **Cat. No. TC-612C-2**
EDP No. 51144

Features one large and four medium drawers, plus a bulk storage compartment for large equipment. Single tumbler lock secures all storage areas.

Dimensions	Width	Depth	Height
Overall	26½	18	36*
Drawers			
4 Top (each)	22¼	16¾	3⅛
1 Middle	22¼	16¾	6½
Compartment	23½	17⅛	9¾
Caster Dia. 4″			

Williams

9 Drawer Roller Cabinet

Cat. No. TC-609R
EDP No. 59294
Weight 142 Lbs. – 64.5 Kg.

Replacement Casters:
Swivel Casters: **Cat. No. TC-612C-1**
EDP No. 51143
Fixed Casters: **Cat. No. TC-612C-2**
EDP No. 51144

Features nine drawers in a wide variety of sizes for convenient organization of small, medium and large tools.

Dimensions	Width	Depth	Height
Overall	26½	18	36*
Drawers			
4 Top (each)	10½	16¾	3⅛
3 Middle (each)	22¼	16¾	3⅛
2 Bottom (each)	22¼	16¾	6½
Caster Dia. 4″			

Williams

12 Drawer Roller Cabinet

Cat. No. TC-612CR
EDP No. 59295
Weight 156 Lbs. – 70.1 Kg.

Replacement Casters:
Swivel Caster: **Cat. No. TC-612C-1**
EDP No. 51143
Fixed Caster: **Cat. No. TC-612C-2**
EDP No. 51144

Our largest standard roller cabinet provides maximum flexibility for tool organization and storage capacity. A separate lock on the top middle drawer offers independent security for valuable tools and other items.

Dimensions	Width	Depth	Height
Overall	26½	18	36*
Drawers			
1 Top (Security)	4¾	16¾	4¼
4 Top (each)	7⅝	16¾	2
1 Middle	22¼	16¾	2
5 Middle (each)	22¼	16¾	3⅛
1 Bottom	22¼	16¾	6⅜
Caster Dia. 4″			

Williams

7 Drawer Machinist's Chest

Brown Wrinkle Finish

Cat. No. TB-6307
EDP No. 59799
Weight 33 Lbs. – 15 Kg.

Drawers feature removable felt liners to protect precision tools. Six drawer dividers are included with the chest. All drawers are locked with a removable security panel. The carrying handle is attached to the top, which is lockable and closes tightly with two drawbolt latches.

Dimensions	Width	Depth	Height
Overall	20¼	8½	13⅝
Drawers			
4 Top (each)	8½	7¼	1
1 Top	8½	7¼	2
1 Middle	18⅛	7¼	1⅜
1 Bottom	18⅛	7¼	2¼

Williams

8 Drawer Machinist's Chest

Brown Wrinkle Finish

Cat. No. TB-6308
EDP No. 59801
Weight 40 Lbs. – 18.2 Kg.

All drawers are secured when the removable panel is locked in place. The top center drawer may be locked independently to protect small tools and other valuables. Each drawer is equipped with a removable felt liner. Six drawer dividers are included with each chest. Sturdy, plated carrying handles are securely attached to each end.

Dimensions	Width	Depth	Height
Overall	27⅛	8½	13½
Drawers			
1 Top (Security)	5¼	7¼	3¼
1 Top	8½	7¼	2
4 Top	8½	7¼	1
1 Middle	24⅝	7¼	1⅜
1 Bottom	24⅝	7¼	2¼

Williams

9 Drawer Machinist's Chest

Brown Wrinkle Finish

Cat. No. TB-6309
EDP No. 59803
Weight 61 Lbs. – 27.7 Kg.

Drawers are equipped with full length drawer pulls convenient for opening. A total of five drawer dividers are included with chest. This chest features a storage rack inside the cover for blueprints, instruction sheets, etc. All drawers are secured when the removable panel is locked in place. Plated, heavy duty, carrying handles are located at each end.

Dimensions	Width	Depth	Height
Overall	26	12	14⅛
Drawers			
5 Top & Center (each)	6¾	10¾	1 1/16
2 Middle (each)	6¾	10¾	2 5/16
2 Bottom (each)	22½	10¾	2 9/16

Williams

2 Drawer Machinist's Step-Up Chest

Brown Wrinkle Finish

Cat. No. TB-6302
EDP No. 59800
Weight 20 Lbs. – 9.1 Kg.

This step-up chest is an excellent solution to increasing storage requirements. It may be placed underneath a TB-6307 chest without loss of work bench or floor space, or sandwiched between a TB-6307 chest and the top of a TC-637 roller cabinet. The top drawer has a removable felt liner to protect precision tools. The drawers are lockable. Plated, heavy duty, carrying handles are securely attached to the chest.

Dimensions	Width	Depth	Height
Overall	21½	9¾	7¾
Drawers			
1 Top	17¾	9½	1⅝
1 Bottom	17¾	9½	3¾

Williams

2 Drawer Machinist's Step-Up Chest

Brown Wrinkle Finish

Cat. No. TB-6302L
EDP No. 59802
Weight 25 Lbs. – 11.4 Kg.

A step-up chest with 24" wide drawers to accommodate extra long tools. Can be used separately, or in combination with TB-6308 chest or TC-637 roller cabinet. The top drawer features a removable felt liner to cushion precision tools. Equipped with a single lock for both drawers and heavy duty, carrying handles.

Dimensions	Width	Depth	Height
Overall	28	9¾	7¾
Drawers			
1 Top	24½	9½	1⅝
1 Bottom	24½	9½	3¾

Williams

7 Drawer Machinist's Roller Cabinet

Brown Wrinkle Finish

Cat. No. TC-637R
EDP No. 59280
Weight 138 Lbs. – 62.7 Kg.

Replacement Casters:
Swivel Casters: **Cat. No. TC-610C-1** EDP No. 51101
Fixed Casters: **Cat. No. TC-610C-2** EDP No. 51102

Designed to be used in combination with fully loaded step-up and multi-drawer chests without distortion which interferes with cabinet drawer operation. A black vinyl mat is furnished to protect the cabinet or work surface.

Dimensions	Width	Depth	Height
Overall	28⅞	18⅛	30½
Drawers			
2 Top (each)	22¼	16⅝	1½
3 Middle (each)	22¼	16⅝	3⅛
1 Middle	22¼	16⅝	4¼
1 Bottom	22¼	16⅝	6½
Caster Dia. 5"			

Williams

Storage Cabinet Accessory

Cat. No. TC-600-1
EDP No. 59791
Weight 32 Lbs. – 14.6 Kg.

This accessory cabinet mounts on either side or the back of a roller cabinet. The adjustable door provides for left or right opening and the two shelves included are fully adjustable. This accessory cabinet will also accept up to four two-drawer sets (see TC-600-2). A locking T-handle provides security. The cabinet may also be wall mounted. See chart below for roller cabinet compatibility.

Dimensions	Width	Depth	Height
Overall	17⅞	11¼	29⁵⁄₁₆

Williams

2 Drawer Set

For Storage Cabinet Accessory TC-600-1

Cat. No. TC-600-2
EDP No. 59792
Weight 8 Lbs. – 3.6 Kg.

When you need more tool or part separation, add one or up to four of these two-drawer sets to your storage cabinet accessory.

Dimensions	Width	Depth	Height
Drawers (each)	13¾	9¾	2⅝

Williams

Side Shelf Accessory

Cat. No. TC-600-3
EDP No. 59793
Weight 10 Lbs. – 4.5 Kg.

Add two square feet of surface area to roller cabinet with this versatile side shelf. Mounts on either side in two positions, flush with top surface of cabinet or 14″ below the top surface. In the top position the shelf can be folded flat against the cabinet side. See chart below for cabinet compatibility.

Dimensions	Width	Depth	Height
Overall	15⅛	17⅞	14

Williams

Work Surface Mat

Cat. No. TC-600-6
EDP No. 59797
Weight 1 Lb. – .45 Kg.

A durable, heavy gauge vinyl mat that provides a non-slip, scratch free work surface, or a cushion between chest and roller cabinet. See chart below for cabinet compatibility.

Dimensions	Width	Depth
Overall	26¼	17¾

Williams

5″ Diameter Caster Set

Cat. No. TC-600-7
EDP No. 59798
Weight 10 Lbs. – 4.5 Kg.

Larger diameter wheels allow a heavily loaded roller cabinet and chest combination to be moved easier, particularly over rough floors, gratings and thresholds. The set includes two rigid and two swivel casters with a lock brake. Installation uses existing mounting holes and hardware. Also included with the set are two protective plastic strips which mount to the bottom edge of the roller cabinet. See chart below for cabinet compatibility.

Dimensions	Diameter
Wheels	5

Williams

Drawer Dividers

Dividers fit the drawer from front to back. Held in place by spring clips, the dividers may be positioned to meet your needs. Each set contains 4 dividers.

Catalog Number	EDP Number	Depth	Height	Set Contents	Weight Lbs.	Kg.
Chest Drawer Divider Set						
TC-6000-1	59795	10½	1⅛	4	5.0	2.3
Cabinet Drawer Divider Set						
TC-600-5	59796	16½	1⅛ & 2⅜	2 each	10.0	4.5

See chart below for chest and cabinet compatibility.

Accessory and Cabinet Compatibility Chart

	Accessories					
Cabinets	TC-600-1	TC-600-2	TC-600-3	TC-600-5	TC-600-6	TC-600-7
TC-603CR	x	x	x	x	x	x
TC-612CR	x	x	x	x	x	x
TC-605CAR	x	x	x	x	x	x
TC-609R	x	x	x	x	x	x
TC-707	x	x	x		x	
TC-710	x	x	x		x	
TC-708	x	x	x			
TC-637R	x	x	x	x		x
TC-617 Cart				x		

Williams

Chest And Roller Cabinet Combinations

Extra Heavy Duty

- This line is a premium line of extra heavy duty tool chest and roller cabinet combinations. Designed to be highly durable, convenient and secure, these are the roller cabinet combinations you want when you're looking for maximum quality.
- Check these features which set Williams premium line apart from standard chest and roller cabinet combinations. (Chest and roller cabinets are sold as separate units. Combinations shown here are suggestions only).

Chests

- Extra Deep Top Tray – Holds deep sockets upright.
- Drop-Front Security Panel – Resists theft, gasketed closure keeps out dirt.
- Three-Point Locking System – Locks at center and both sides with tamper resistant double bitted lock.
- Increased Capacity – Provides 10% more storage space than Williams standard line.
- Full Length Drawer Pulls – Adds strength and convenience.
- Drawer Liners – Protect finish and tools from abrasion.
- Movable Dividers – Customize the space in each drawer to meet your needs.
- 100% Drawer Extension – Easy to find tools stored or shifted to rear of drawer.
- Standardized Drawer Size – Allows interchange of accessories with roller cabinet drawers.
- Bottom Reinforcing Rails – Prevents chest distortion and damage under load or during movement.
- Easy Bolt Together Combinations – Weld nuts plus pre-drilled holes make bolt assembly easy. The integral unit deters theft and reduces liability.

Roller Cabinets

- Heavy Duty Side Handle – Full width, round handle gives comfortable secure grip when moving cabinet.
- Automatic Locking System – Locks all drawers except the one you are using. When finished, simply close drawer to automatically lock. Tamper-resistant double bitted locks keep tools safe.
- Recessed Drawer Fronts – Stronger, more secure, helps prevent theft.
- Double Slides On Large Drawers – Six inch and deeper drawers use four slides, support more weight and operate smoother.
- Extra Large Casters – Big 2" wide x 5" dia. heavy duty casters roll and steer easily over rough floors and gratings. Two fixed and two swivel casters with toe lock brake.
- Heavy-Gauge Caster Channels – Two 14 gauge steel channels run full width, reinforcing 16 gauge cabinet bottom. Prevents cabinet distortion under load and while moving.
- Reinforced Top – Special stiffening braces welded to under side of top, help support weight of loaded chest.
- Embossed Back – Special ribbed design adds strength to cabinet without increasing weight.
- Rubber Mat – Fits on top of cabinet to provide a scratch-free non-slip work surface (without chest installed).

Williams

13 Drawer Chest and Roller Cabinet Combination

Extra Heavy Duty

6 Drawer Chest
Cat. No. TB-7006
EDP No. 59774
Weight 81 Lbs. – 36.8 Kg.

7 Drawer Roller Cabinet
Cat. No. TC-707
EDP No. 59778
Weight 179 Lbs. – 81.3 Kg.

Dimensions	Width	Depth	Height
Chest			
Overall	26	13¾	16½
Top Tray	25½	12⅝	2¾
Drawers			
3 Top (each)	6⁵⁄₁₆	11⅛	1⅝
2 Middle (each)	21¼	11⅞	1⅝
1 Bottom	21¼	11⅞	2⅝
Roller Cabinet			
Overall	26½	18	36*
Drawers			
3 Top (each)	21¼	15⅞	1⅞
3 Middle (each)	21¼	15⅞	2⅝
1 Bottom	21¼	15⅞	7
Caster Dia. 5"			

Must be ordered separately.

Roller Cabinet TC-710 will also accept Drawer Chest TB-7006 for additional storage space.

Williams

18 Drawer Chest and Roller Cabinet Combination

Extra Heavy Duty

8 Drawer Chest
Cat. No. TB-7008
EDP No. 59775
Weight 121 Lbs. – 54.9 Kg.

10 Drawer Roller Cabinet
Cat. No. TC-710
EDP No. 59779
Weight 191 Lbs. – 86.7 Kg.

Dimensions	Width	Depth	Height
Chest			
Overall	26	17¾	20½
Top Tray	25½	16½	2¾
Drawers			
4 Top (each)	10⅛	15⅞	1⅝
3 Middle (each)	21¼	15⅞	1⅝
1 Bottom	21¼	15⅞	2⅝
Roller Cabinet			
Overall	26½	18	36*
Drawers			
1 Top (Security)	4¾	15⅞	5⅞
4 Top (each)	7	15⅞	2⅝
1 Middle	21¼	15⅞	2⅝
3 Middle (each)	21¼	15⅞	3⅞
1 Bottom	21¼	15⅞	7
Caster Dia. 5"			

Must be ordered separately.

Roller Cabinet TC-707 will also accept Drawer Chest TB-7008 for additional storage space.

Williams

20 Drawer Chest and Roller Cabinet Combination

Extra Heavy Duty

12 Drawer Chest
Cat. No. TB-7012
EDP No. 59776
Weight 152 Lbs. – 69.1 Kg.

8 Drawer Roller Cabinet
Cat. No. TC-708
EDP No. 59780
Weight 217 Lbs. – 98.5 Kg.

Dimensions	Width	Depth	Height
Chest			
Overall	33	17¾	20½
Top Tray	32½	16½	2¾
Drawers			
9 Top (each)	8⅝	15⅞	1⅝
2 Middle (each)	28¼	15⅞	1⅝
1 Bottom	28¼	15⅞	2⅝
Roller Cabinet			
Overall	33½	18	36*
Drawers			
4 Top (each)	28¼	15⅞	1⅝
2 Middle (each)	28¼	15⅞	2⅝
2 Bottom	28¼	15⅞	7
Caster Dia. 5"			

Must be ordered separately.

Roller Cabinet TC-708 will also accept Drawer Chest TB-7006 and TB-7008 for additional storage space.

*Cabinet height does not include casters.

Williams
19″ Flat Top Tool Box

Cat. No. TB-6119
EDP No. 59782
Weight 8 Lbs. – 3.6 Kg.

A basic hand tool box which includes a lightweight plastic tote tray. The combination drawbolt and padlock eye provide security.

Dimensions	Width	Depth	Height	Cubic Inch
Overall	19⅛	7	7½	997

Williams
24″ Flat Top Tool Box

Cat. No. TB-6124
EDP No. 59784
Weight 19 Lbs. – 8.6 Kg.

Extra-long tools, up to 24″ fit neatly inside this ruggedly constructed hand tool box. The three-compartment tote tray is fitted with a socket divider to keep small tools better organized and close at hand. Double drawbolts keep the lid tightly closed, and a padlock eye with slotted hasp provides security.

Dimensions	Width	Depth	Height	Cubic Inch
Overall	24¼	9½	9½	2180

Williams
20″ Hip Roof Tool Box

Cat. No. TB-6220
EDP No. 59785
Weight 9 Lbs. – 4.1 Kg.

An excellent tool box for the tradesman who carries bulky drills or a ¾″ drive socket set along with other hand tools. The hip roof design accommodates an extra large tote tray with deeper space between handle and tray bottom. A combination drawbolt and padlock eye provides security.

Dimensions	Width	Depth	Height	Cubic Inch
Overall	19¾	7	8	1015

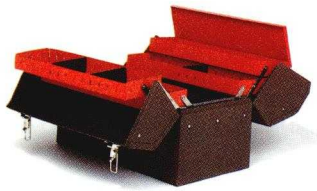
Williams
21″ Hip Roof G.I. Style Tool Box

Cat. No. TB-6221
EDP No. 59786
Weight 10 Lbs. – 4.5 Kg.

Overlapping two-piece cover pivots on full-length piano hinges. With both covers open, user has unrestricted access to the big tote tray and box contents. A rugged handle is fitted to each half cover. Both handles must be used to carry box, keeping weight balanced and preventing spills.

Dimensions	Width	Depth	Height	Cubic Inch
Overall	21	8½	8¼	1021

Williams
Four Tray Cantilever Tool Box
Brown Wrinkle Finish



Cat. No. TB-6218
EDP No. 59787
Weight 21 Lbs. – 9.5 Kg.

Four trays cantilever outward when box is open, providing access to the exceptionally deep box. Two of the trays feature movable dividers, and another has a protective cover to prevent small tools or parts from spilling into the deep box. Formed feet in the box bottom add to strength and keep box away from wet, dirty surfaces.

Dimensions	Width	Depth	Height	Cubic Inch
Overall	18	10	13¼	2215

Williams
Tool Boxes

Made from high quality sheet steel, welded and finished with a durable baked-on red enamel finish, Williams tool boxes can provide a lifetime of service.

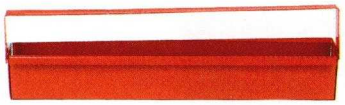
Catalog Number	EDP Number	Width	Depth	Height	Weight Lbs.	Kg.
TB-30	59324	9½	4	2	1.9	.86
2 compartments formed by one partial length partition for ¼" drive sockets and tools.						
TB-31	59325	14	4¼	2	2.0	.91
2 compartments formed by one full length partition for ⅜" drive sockets and tools.						
TB-32	59326	14½	5½	1¾	2.6	1.2
2 compartments formed by one full length partition for ½" drive sockets and tools.						
TB-33	59327	15¾	5½	2½	2.3	1.0
2 compartments formed by one full length partition for ½" drive sockets and tools.						
TB-4A	51126	19½	5⅞	1⅜	3.2	1.5
3 compartments formed by one partial length and one front to back partition for ⅜" drive sockets and tools.						

TB-7	51107	23	8	2¼	6.4	2.9
3 compartments formed by one partial length and one front to back partitions for ¾" drive socket combination set. Top handle for portability.						
TB-10	51111	20¾	5¼	4¼	8.3	3.8
2 compartments formed by one full length partition for ½" and ⅜" drive combination sets. Top handle for portability.						
TB-34	59328	18¼	8¼	2¼	3.6	1.6
3 compartments formed by one partial length and one front to back partitions for ½" drive socket set and tools. Top handle for portability.						

TB-8T	51109	22¼	7½	9¼	14.6	6.6
5 compartments & tote tray for ½" drive socket and combination sets. Hip roof style with handle.						
TB-9T	51110	23¼	7½	9¼	14.6	6.6
3 compartments formed by two full length partitions plus tote tray for ¾" drive sockets and combination sets. Hip roof style with two side handles.						

TB-11	51112	29¼	8	4¼	14.9	6.8
3 compartments formed by one full length and one partial front to back partitions. Two side handles.						
TB-12	51113	30¼	11½	4¾	26.4	12.0
3 compartments formed by 2 full length partitions. Two side handles.						

Williams
Socket Trays



Socket trays are fabricated from sheet steel and are protected with a baked enamel finish. Convenient handle folds for easy access to sockets.

Catalog Number	EDP Number	Width	Depth	Height	Weight Lbs.	Kg.
TBT-7	50804	7 13/16	13/16 – 1 3/16	⅞	.41	.19
TBT-8	50805	8⅝	15/16 – 1⅜	1⅜	.56	.25
TBT-10	50807	12¾	1⅛ – 1 7/16	1	.84	.38
TBT-11	50808	13⅓	1⅛ – 1¾	2	1.5	.68
TBT-12	50809	14 7/16	1⅛ – 1¾	1⅛	1.5	.68
TBT-13	50810	6⅜	1 5/16 – 1 5/16	1½	.52	.24

Williams
Rails and Clips

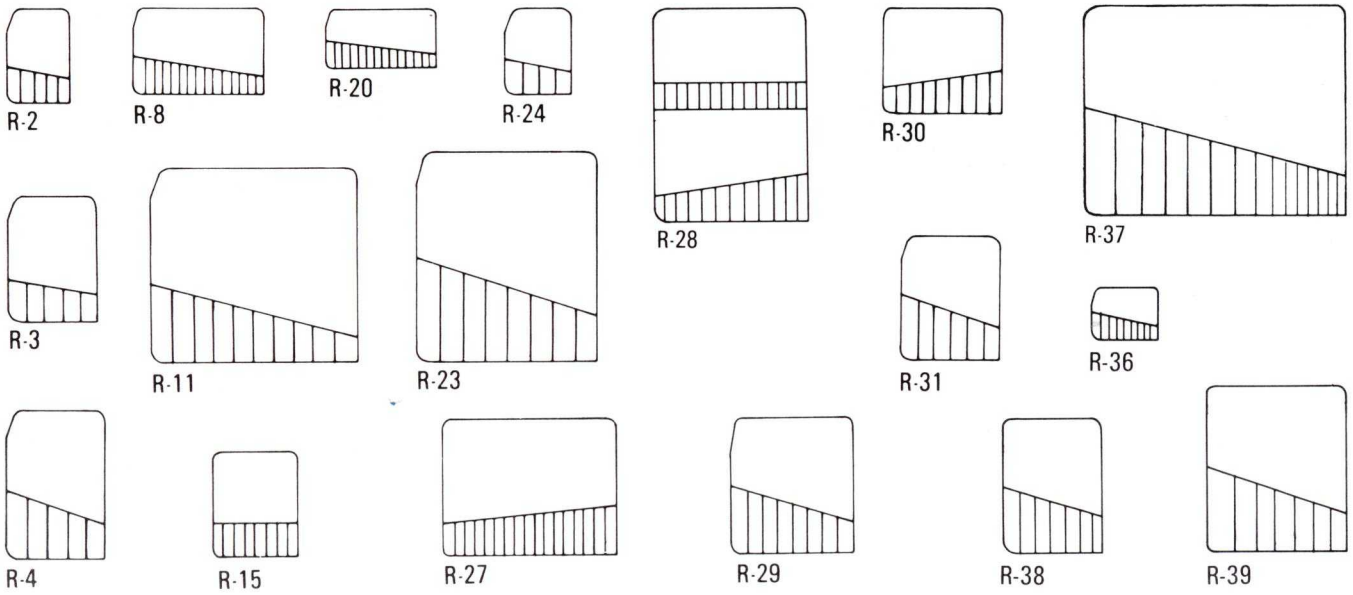
Rails and clips for storage and organization of your sockets are fabricated from steel and plated for maximum protection.

Catalog Number	EDP Number	Drive Size	Rail Length	Number of Clips	Weight Lbs.	Kg.
Rails & Clips						
RM-10	50740	¼	9	10	.16	.07
RM-12	50741	¼	17	12	.25	.11
RB-5	50731	⅜	9	5	.18	.08
RB-10	50732	⅜	17	10	.25	.11
RB-12	50733	⅜	17	12	.27	.12
RS-5	50743	½	9	5	.21	.10
RS-10	50744	½	17	10	.28	.13
RS-12	50745	½	17	12	.31	.14
Clips Only						
RC-25P	50737	¼		25	.10	.05
RC-37P	50738	⅜		25	.15	.07
RC-50P	50739	½		25	.30	.14
RC-75P	50727	¾		25	.008	.004

Catalog Number	EDP Number	Description	Weight Lbs.	Kg.
Rails Only				
R-9	50729	One 9" long rail for ¼" thru ¾" socket clips	.15	.07
R-17	50730	One 17" long rail for ¼" thru ¾" socket clips	.25	.11

Williams

Vinyl Tool Rolls



Williams tough, flexible and durable Roll Pouches are proportionally sized for each set. They are highly resistant to grease and oil. All pockets and trim are stitched for non-tear strength.

Catalog Number	EDP Number	Number Pockets	Dimensions Width	Height	Use For These Sets Set Cat. No.	EDP No.	Weight Lbs.	Kg.
R-1	41670	5	5⅝	7	EXS-30	91224	.05	.02
R-2	41671	5	8	12	WS-1173	49716	.11	.05
					MWS-1	49225		
R-3	41672	5	11½	16	WS-5	97397	.22	.10
					WS-12	49560		
					MWS-2	49230		
					MWS-20	49642		
					MWS-30	49565		
R-4	41673	5	12⅝	19	WS-14	49562	.25	.11
R-5	41674	5	16	25	MWS-3	49235	.35	.16
					MWS-21	49654		
R-6	41675	5	15½	27	—	—	.51	.23
R-7	41676	5	19½	32	MWS-4	49240	.68	.31
R-8	41677	15	17	11	HBDS-13R	99984	.20	.09
R-11	41679	10	27⅛	25	WS-1712	49636	.96	.44
					MWS-22	49661		
R-13	41681	10	34½	32	MWS-6	49248	1.2	.71
R-15	41662	8	15¾	17½	WS-608	49201	.27	.12
R-20	41658	14	14⅜	7½	WS-1142P	49286	.12	.05
					MWS-5	49224		
R-23	41688	8	23½	27	WS-8008	49540	.92	.42
R-24	41689	4	8⅝	11	CCS-4	99902	.13	.06
					CDS-4	99903		
					CRS-4	99904		
					PS-4	99905		
R-27	91011	17	22½	17½	PC-17	99355	.42	.19
					PS-17	99352		
R-28	91010	26	19⅝	27¾	PC-26	99358	.96	.44
R-29	91008	8	19⅝	13⅜	CS-8	99345	.20	.09
					PC-8	99353		
R-30	91009	9	15⅜	13⅜	CS-9	99347	.17	.08
R-31	41657	6	12¾	16	PLS-6	27098	.29	.13
R-36	41669	9	8½	6	—	—	.08	.04
R-37	41695	15	38	26	WS-1172	49720	.41	.19
					WS-1172B	49723		
R-38	41696	7	13	17½	WS-1170	49718	.22	.10
R-39	41697	7	18	22	WS-7007	49729	.43	.20

Williams

Nominal Wrench Openings

Nominal Wrench Openings as Related to American National Standards Institute Bolt and Nut Sizes

Nominal Wrench Opening	Regular Series Hex and *Square Nuts and Bolts: For Nuts For These Sizes of Bolts	Regular Series Hex and *Square Nuts and Bolts: For Heads of Bolts of These Diameters	Heavy Series Hex and Square Nuts Hex Head Bolts: For Nuts For These Sizes of Bolts	Heavy Series Hex and Square Nuts Hex Head Bolts: For Heads of Bolts of These Diameters	Finished Series Regular and Thick Hex Nuts Hex Head Bolts: For Nuts For These Sizes of Bolts	Finished Series Regular and Thick Hex Nuts Hex Head Bolts: For Heads of Bolts of These Diameters	For Hex Head CAP SCREWS Diameters of Screws	For Square Head SET SCREWS Diameters of Screws	For Square or Hex Machine Screw Nuts and Stove Bolt Nuts Size or Diam.
5/32									No. 0 & 1
3/16								No. 10	No. 2 & 3
7/32								No. 12	
1/4								1/4	No. 4
5/16								5/16	No. 5 & 6
11/32									No. 8
3/8		1/4*						3/8	No. 10
7/16	1/4	1/4			1/4	1/4	1/4	7/16	No. 12 & 1/4
1/2		5/16	1/4		5/16	5/16	5/16	1/2	
9/16	5/16	3/8	5/16		3/8	3/8	3/8	9/16	5/16
19/32									
5/8	3/8	7/16				7/16	7/16	5/8	3/8
11/16			3/8		7/16				
3/4	7/16	1/2	7/16		1/2	1/2	1/2	3/4	
25/32									
13/16	1/2	9/16				9/16	9/16		
7/8	9/16		1/2	1/2	9/16			7/8	
15/16		5/8	9/16		5/8	5/8	5/8		
1	5/8							1	
1 1/16			5/8	5/8					
1 1/8	3/4	3/4			3/4	3/4	3/4	1 1/8	
1 1/4			3/4	3/4				1 1/4	
1 5/16	7/8	7/8			7/8	7/8	7/8		
1 3/8								1 3/8	
1 7/16			7/8	7/8					
1 1/2	1	1			1	1	1	1 1/2	
1 5/8			1	1					
1 11/16	1 1/8	1 1/8			1 1/8	1 1/8	1 1/8		
1 13/16			1 1/8	1 1/8					
1 7/8	1 1/4	1 1/4			1 1/4	1 1/4	1 1/4		
2			1 1/4	1 1/4					
2 1/16	1 3/8	1 3/8			1 3/8	1 3/8	1 3/8		
2 3/16			1 3/8	1 3/8					
2 1/4	1 1/2	1 1/2			1 1/2	1 1/2	1 1/2		
2 3/8			1 1/2	1 1/2					
2 7/16	1 5/8	1 5/8		1 5/8	1 5/8				
2 9/16			1 5/8	1 5/8					
2 5/8	1 3/4	1 3/4			1 3/4	1 3/4			
2 3/4			1 3/4	1 3/4					
2 13/16	1 7/8	1 7/8			1 7/8	1 7/8			
2 15/16			1 7/8	1 7/8					
1	2	2			2	2			
3 1/8			2	2					
3 1/8	2 1/4	2 1/4			2 1/4	2 1/4			
3 1/2			2 1/4	2 1/4					
3 3/4	2 1/2	2 1/2			2 1/2	2 1/2			
3 7/8			2 1/2	2 1/2					
4 1/8	2 3/4	2 3/4			2 3/4	2 3/4			
4 1/4			2 3/4	2 3/4					
4 1/2	3	3			3	3			
4 5/8			3	3					
4 7/8		3 1/4							
5			3 1/4						
5 1/4		3 1/2							
5 3/8			3 1/2						
5 5/8		3 3/4							
5 3/4			3 3/4						

Williams®

Section 3
Fractional Wrenches

Williams wrenches have been a standard of quality, dependability and value for over 100 years.

Designed to satisfy the toughest industrial requirements, each wrench is forged from selected steels, precision machined, fully heat-treated, polished and plated for a lifetime of dependable service. A number of wrench lines are also available in black industrial finish.

Refer to page 121 for product specifications.

Safe Use of Wrenches

- To prevent wrench slippage, always seat wrenches squarely on fastener. When required, use offset wrenches to provide adequate clearance.
- For high load applications use a box wrench. The multi-contact points will prevent fastener damage. Six point box wrenches are best on worn or rusty fasteners.
- To tighten or loosen fasteners requiring extreme loads use a striking face wrench or a socket and torque multiplier combination.
- Set adjustable wrenches to fit the fastener. Position an adjustable wrench so the load is applied in the direction of the movable jaw.
- When using tools be sure you have good position and balance. Pulling, rather than pushing a wrench will help prevent injury in the event of slippage or breakage.
- Inspect tools periodically and discard worn or damaged tools.

Wrench Opening And Related Bolt And Nut Size Reference Chart On Page 26.

Williams has established a Custom Set Department dedicated to the make-up of tool sets to meet competitive or special purpose requirements. For a quick response, direct your inquiry or set specifications to our Customer Service Department.

Williams

Combination Wrenches

Open End and 15° Offset Box Opening
12 Point Box
Chrome Finish

Fed. Spec.: GGG-W-636E, Type III; ANSI B107.6, Type 3

General purpose wrenches in a full range of opening sizes. Same opening in each end. A choice of operation and clearance. Handle designed for maximum leverage.

Catalog Number	Openings	EDP Number	Length	Weight Lbs.	Weight Kg.
1158	1/4	*40372	5	.04	.02
1159	5/16	*40373	5 1/2	.06	.03
1159A	11/32	40374	5 1/2	.06	.03
1160	3/8	*40375	6	.08	.04
1161	7/16	*40376	6 5/8	.13	.06
1162	1/2	*40377	7 3/16	.16	.07
1163	9/16	*40378	7 15/16	.21	.10
1163A	19/32	40379	8 3/4	.29	.13
1164	5/8	*40380	8 3/4	.29	.13
1165	11/16	*40381	9 5/8	.35	.16
1166	3/4	*40382	10 5/8	.46	.21
1166A	25/32	40383	11 9/16	.58	.26
1167A	13/16	*40385	11 9/16	.56	.25
1167	7/8	*40384	12 11/16	.69	.31
1168	15/16	*40386	13 7/8	.85	.39
1170	1	*40388	15 1/8	1.0	.45
1171	1 1/16	*40389	16 1/4	1.3	.59
1172	1 1/8	*40390	17 7/16	1.5	.68
1173	1 1/4	*40391	18 11/16	1.9	.86
1174	1 5/16	40392	20	2.2	1.0
1176A	1 3/8	40394	21 5/16	3.3	1.5
1176	1 7/16	40393	21 5/16	3.1	1.4
1178	1 1/2	40370	21 5/16	3.0	1.3
1180	1 5/8	40371	22 3/4	3.9	1.8
1182	1 11/16	40510	22 3/4	3.8	1.7
1184	1 3/4	40511	26	6.9	3.2
1186	1 13/16	40512	26	6.7	3.1
1188	1 7/8	40513	26	6.6	3.0
1190	2	40514	26	6.4	2.9
1191	2 1/16	40515	26	6.2	2.8
1192	2 1/8	40516	28	10.0	4.5
1193	2 3/16	40517	28	9.8	4.4
1194	2 1/4	40518	28	9.6	4.3
1195	2 3/8	40506	30	13.6	6.2
1197	2 1/2	40507	30	13.9	6.3

*Also available in black. See page 29

Williams

Combination Wrench Sets

Open End and 15° Offset Box Opening
12 Point Box

Set Cat. No. WS-1173 5 Tools and Roll R-2
EDP No. 49716 Weight .75 Lbs. – .34 Kg.

Number	Openings	Length
1159	5/16	5 1/2
1160	3/8	6
1161	7/16	6 5/8
1162	1/2	7 3/16
1163	9/16	7 15/16

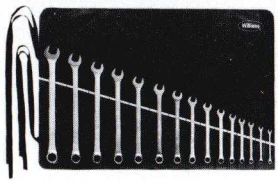
Set Cat. No. WS-1173T 5 Tools EDP No. 49717

Set Cat. No. WS-1170 7 Tools and Roll R-38
EDP No. 49718 Weight 1.7 Lbs. – .76 Kg.

Number	Openings	Length
1160	3/8	6
1161	7/16	6 5/8
1162	1/2	7 3/16
1163	9/16	7 15/16
1164	5/8	8 3/4
1165	11/16	9 5/8
1166	3/4	10 5/8

Set Cat. No. WS-1170T 7 Tools EDP No. 49719

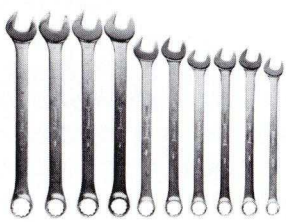
Set Cat. No. WS-1172 15 Tools and Roll R-37
EDP No. 49720 Weight 9.5 Lbs. – 4.3 Kg.



Number	Openings	Length
1159	5/16	5 1/2
1160	3/8	6
1161	7/16	6 5/8
1162	1/2	7 3/16
1163	9/16	7 15/16
1164	5/8	8 3/4
1165	11/16	9 5/8
1166	3/4	10 5/8
1167A	13/16	11 9/16
1167	7/8	12 11/16
1168	15/16	13 7/8
1170	1	15 1/8
1171	1 1/16	16 1/4
1172	1 1/8	17 7/16
1173	1 1/4	18 11/16

Set Cat. No. WS-1172T 15 Tools EDP No. 49721

Set Cat. No. WS-1174T 10 Tools
EDP No. 49722 Weight 46.9 Lbs. – 20.8 Kg.



Number	Openings	Length
1174	1 5/16	20
1176A	1 3/8	21 5/16
1176	1 7/16	21 5/16
1178	1 1/2	21 5/16
1180	1 5/8	22 3/4
1182	1 11/16	22 3/4
1184	1 3/4	26
1186	1 13/16	26
1188	1 7/8	26
1190	2	26

Williams

Combination Wrenches

Open end and 15° Offset Box Opening
12 Point Box
Black Finish

Fed. Spec.: GGG-W-636E, Type III; ANSI B107.6, Type 3

General purpose wrenches in a full range of opening sizes. Same opening in each end. A choice of operation and clearance. Handle designed for maximum leverage.

Catalog Number	Openings	EDP Number	Length	Weight Lbs.	Kg.
BXOE-8	1/4	43011	5	.04	.02
BXOE-10	5/16	43012	5 1/2	.06	.03
BXOE-12	3/8	43060	6	.08	.04
BXOE-14	7/16	43061	6 5/8	.13	.06
BXOE-16	1/2	43062	7 3/16	.16	.07
BXOE-18	9/16	43063	7 15/16	.21	.10
BXOE-20	5/8	43064	8 3/4	.29	.13
BXOE-22	11/16	43065	9 5/8	.35	.16
BXOE-24	3/4	43066	10 5/8	.46	.21
BXOE-26	13/16	43067	11 9/16	.56	.25
BXOE-28	7/8	43068	12 11/16	.69	.31
BXOE-30	15/16	43069	13 7/8	.85	.39
BXOE-32	1	43070	15 1/8	1.0	.45
BXOE-34	1 1/16	43071	16 1/4	1.3	.59
BXOE-36	1 1/8	43072	17 7/16	1.5	.68
BXOE-40	1 1/4	43073	18 11/16	1.9	.86

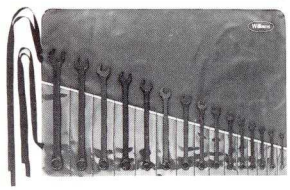
Williams

Combination Wrench Set

Open End and 15° Offset Box Opening
12 Point Box
Black Finish

Set Cat. No. WS-1172B 15 Tools and Roll R-37
EDP No. 49723 Weight 9.5 Lbs. – 4.3 Kg.

Number	Openings	Length
BXOE-10	5/16	5 1/2
BXOE-12	3/8	6
BXOE-14	7/16	6 5/8
BXOE-16	1/2	7 3/16
BXOE-18	9/16	7 15/16
BXOE-20	5/8	8 3/4
BXOE-22	11/16	9 5/8
BXOE-24	3/4	10 5/8
BXOE-26	13/16	11 9/16
BXOE-28	7/8	12 11/16
BXOE-30	15/16	13 7/8
BXOE-32	1	15 1/8
BXOE-34	1 1/16	16 1/4
BXOE-36	1 1/8	17 7/16
BXOE-40	1 1/4	18 11/16



Set Cat. No. WS-1172BT 15 Tools EDP No. 49724

Williams

Combination Wrenches

Open End and 15° Offset Box Opening
6 Point Box
Chrome Finish

ANSI B107.6, Type 3

Six point openings are especially useful for worn and rounded fasteners. Same opening in each end.

Catalog Number	Openings	EDP Number	Length	Weight Lbs.	Kg.
XOE-610	5/16	40612	5 1/2	.06	.03
XOE-612	3/8	40613	6	.08	.04
XOE-614	7/16	40614	6 5/8	.13	.06
XOE-616	1/2	40615	7 3/16	.16	.07
XOE-618	9/16	40616	7 15/16	.21	.09
XOE-620	5/8	40617	8 3/4	.29	.13
XOE-622	11/16	40618	9 5/8	.35	.16
XOE-624	3/4	40619	10 5/8	.46	.21

Williams

Combination Wrench Set

Open End and 15° Offset Box Opening
6 Point Box

Set Cat. No. WS-608 8 Tools and Roll R-15
EDP No. 49201 Weight 2.0 Lbs. – .91 Kg.

Number	Openings	Length
XOE-610	5/16	5 1/2
XOE-612	3/8	6
XOE-614	7/16	6 5/8
XOE-616	1/2	7 3/16
XOE-618	9/16	7 15/16
XOE-620	5/8	8 3/4
XOE-622	11/16	9 5/8
XOE-624	3/4	10 5/8

Set Cat. No. WS-608T 8 Tools EDP No. 49199

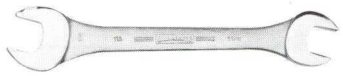
Williams

Open End Wrenches

Double Head Open End, 15° Angle
Chrome Finish

Fed. Spec.: GGG-W-636E Type IV; ANSI B107.6, Type 2

Two opening sizes in each wrench. Unique design allows for high torque applications.



Catalog Number	Openings	EDP Number	Length	Weight Lbs.	Kg.
1020	1/4 x 5/16	40185	4 1/2	.03	.01
1721	5/16 x 3/8	40550	4 1/2	.04	.02
1723	3/8 x 7/16	40552	4 7/8	.06	.03
1725	7/16 x 1/2	40554	5 3/4	.13	.06
1725B	1/2 x 9/16	40556	6 1/8	.19	.09
1727	9/16 x 5/8	40557	6 3/4	.20	.09
1027B	5/8 x 11/16	40099	7 1/2	.27	.12
1731	3/4 x 13/16	40559	9 5/8	.50	.23
1731A	3/4 x 7/8	40560	9 5/8	.50	.23
1033A	7/8 x 15/16	40112	10 5/8	.75	.34
1033C	15/16 x 1	40113	11 1/2	1.05	.48
1037	1 1/16 x 1 1/4	40119	13 3/4	1.6	.73
1037A	1 1/8 x 1 5/16	40120	13 3/4	1.6	.73
1039D	1 3/8 x 1 1/2	40258	15 9/16	2.5	1.1
1041	1 7/16 x 1 5/8	40127	17	3.1	1.4

Black Finish

Catalog Number	Openings	EDP Number	Length	Weight Lbs.	Kg.
BW-720	1/4 x 5/16	31193	4 1/2	.03	.01
BW-721	5/16 x 3/8	31195	4 1/2	.04	.02
BW-723	3/8 x 7/16	31197	4 7/8	.06	.03
BW-725	7/16 x 1/2	31199	5 3/4	.13	.06
BW-725B	1/2 x 9/16	31201	6 1/8	.19	.09
BW-727	9/16 x 5/8	31203	6 3/4	.20	.09
BW-27B	5/8 x 11/16	30121	7 1/2	.27	.12
BW-731	3/4 x 13/16	31208	9 5/8	.50	.23
BW-731A	3/4 x 7/8	31209	9 5/8	.50	.23
BW-33A	7/8 x 15/16	30132	10 5/8	.75	.34
BW-33C	15/16 x 1	30133	11 1/2	1.05	.48
BW-37	1 1/16 x 1 1/4	30139	13 3/4	1.6	.73
BW-37A	1 1/8 x 1 5/16	30140	13 3/4	1.6	.73
BW-39D	1 3/8 x 1 1/2	30148	15 9/16	2.5	1.1
BW-41	1 7/16 x 1 5/8	30213	17	3.1	1.4

Williams

Open End Wrench Set

Double Head Open End, 15° Angle

Set Cat. No. WS-1712 10 Tools and Roll R-11
EDP No. 49636 Weight 9.6 Lbs. – 4.4 Kg.

Number	Openings	Length
1020	1/4 x 5/16	4 1/4
1723	3/8 x 7/16	5 1/4
1725B	1/2 x 9/16	6 3/8
1027B	5/8 x 11/16	8
1731	3/4 x 13/16	9 1/2
1033A	7/8 x 15/16	11 1/4
1037	1 1/16 x 1 1/4	13 1/4
1037A	1 1/8 x 1 5/16	13 1/4
1039D	1 3/8 x 1 1/2	15 9/16
1041	1 7/16 x 1 5/8	15 9/16

Set Cat. No. WS-1712T 10 Tools EDP No. 49633

Williams

Flare Nut Wrenches

Double Head Split Box, 15° Offset Opening
6 and 12 Point Box
Chrome Finish

ANSI B107.6, Type 4

Five split box wrenches are available to cover most fitting sizes.

Catalog Number	Openings	EDP Number	Length	Weight Lbs.	Kg.
XFN-1214	3/8 x 7/16	43050	6 1/4	.12	.05
XFN-1618	1/2 x 9/16	43051	7 1/2	.25	.11
XFN-2022	5/8 x 11/16	43052	8 1/2	.40	.18
XFN-2432	3/4 x 1*	43053	9 3/16	.60	.27
XFN-2836	7/8 x 1 1/8*	43054	9 7/8	.90	.41

*12 Point Opening

Williams

Flare Nut Wrench Set

Double Head Split Box, 15° Offset Opening
6 and 12 Point Box

Five wrenches in one set will handle fittings for tube sizes as follows: 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 9/16", 11/16" and 3/4".

Set Cat. No. WS-14 5 Tools and Roll R-4
EDP No. 49526 Weight 2.3 Lbs. – 1.0 Kg.

Number	Openings	Length
XFN-1214	3/8 x 7/16	6 1/4
XFN-1618	1/2 x 9/16	7 1/2
XFN-2022	5/8 x 11/16	8 1/2
XFN-2432	3/4 x 1*	9 3/16
XFN-2836	7/8 x 1 1/8*	9 7/8

*12 Point Opening

Set Cat. No. WS-14T 5 Tools EDP No. 49524

Williams
Miniature Open End Wrenches

Double Head, Open Ends
Chrome Finish

15° & 75° angle openings allow fast turning of fasteners in limited clearance areas. Same opening size in each end.

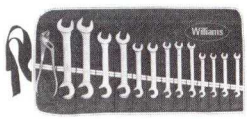
Catalog Number	Openings	EDP Number	Length	Weight Lbs.	Kg.
1112	3/16	40314	3	.01	.005
1113	13/64	40315	3	.01	.005
1114	7/32	40316	3	.01	.005
1115	15/64	40317	3	.01	.005
1116	1/4	40318	3¾	.02	.01
1118	9/32	40319	3¾	.02	.01
1120	5/16	40320	3¾	.02	.01
1122	11/32	40321	3¾	.03	.01
1124	3/8	40322	3¾	.03	.01
1128	7/16	40323	4½	.06	.03
1132	½	40324	4½	.06	.03
1136	9/16	40325	5½	.11	.05
1140	5/8	40326	5½	.11	.05

Williams
Miniature Open End Wrench Set

Double Head, Open Ends

Set Cat. No. WS-1142P 14 Tools and Roll R-20
EDP No. 49286 Weight 1.0 Lbs. – .45 Kg.

Number	Openings	Length
1112	3/16	3
1113	13/64	3
1114	7/32	3
1115	15/64	3
1116	1/4	3
1118	9/32	3¾
1120	5/16	3¾
1122	11/32	3¾
1124	3/8	3¾
1128	7/16	4½
1132	½	4½
1136	9/16	5½
1140	5/8	5½
PL-1519	5" Superjoint	5



Set Cat. No. WS-1142PT 14 Tools EDP No. 49284

Williams

Box Wrenches

Double Head 15° Offsets, Regular Length
12 Point Box
Chrome Finish

Fed. Spec.: GGG-W-636E, Type I, Class 1, Style 1; ANSI B107.6, Type 1, Class 1, Style 1

Added length for increased leverage. Different opening sizes in each end.

Catalog Number	Openings	EDP Number	Length	Weight Lbs.	Kg.
7723	3/8 x 7/16	40964	7 3/4	.11	.05
7725B	1/2 x 9/16	40967	8 11/16	.21	.10
7727A	5/8 x 11/16	40969	9 3/4	.29	.13
7731A	3/4 x 7/8	40972	12	.53	.24
7731B	13/16 x 7/8	40973	12 7/8	.63	.29
7033C	15/16 x 1	40954	14 3/8	.90	.41
7735A	1 1/16 x 1 1/8	40976	16 5/8	1.3	.59
7039B	1 1/4 x 1 5/16	40961	18 3/4	1.9	.86
7040B	1 7/16 x 1 1/2	40962	21 1/2	4.7	2.1
7041	1 7/16 x 1 5/8	40963	22 1/2	4.0	1.8

Williams

Box Wrench Set

Double Head 15° Offsets, Regular Length
12 Point Box

Set Cat. No. WS-7007 7 Tools and Roll R-39
EDP No. 49729 Weight 3.97 Lbs. – 1.8 Kg.

Number	Openings	Length
7723	3/8 x 7/16	7 3/4
7725B	1/2 x 9/16	8 11/16
7727A	5/8 x 11/16	9 3/4
7731A	3/4 x 7/8	12
7731B	13/16 x 7/8	12 7/8
7033C	15/16 x 1	14 3/8
7735A	1 1/16 x 1 1/8	16 5/8

Set Cat. No. WS-7007T 7 Tools EDP No. 49730

Williams

Box Wrenches

Double Head 15° Offsets, Short Length
12 Point Box
Chrome Finish

Fed. Spec.: GGG-W-636E, Type I, Class 1, Style 2; ANSI B107.6, Type 1, Class 1, Style 2

Offset for clearance with different opening sizes in each end.

Catalog Number	Openings	EDP Number	Length	Weight Lbs.	Kg.
6723	3/8 x 7/16	40918	4 1/2	.08	.04
6725	7/16 x 1/2	40919	5 1/2	.11	.05
6725B	1/2 x 9/16	40921	5 1/2	.14	.06
6727	9/16 x 5/8	40922	6	.18	.08

Williams

Box Wrenches

Double Head Modified Offset, Regular Length
12 Point Box
Chrome Finish

Fed. Spec.: GGG-W-636-E, Type I, Class 2, Style 1; ANSI B107.6, Type 1, Class 2, Style 1

Double offset for turning clearance. Different opening sizes in each end.

Catalog Number	Openings	EDP Number	Length	Weight Lbs.	Kg.
8721	5/16 x 3/8	41075	7 1/2	.13	.06
8723	3/8 x 7/16	41054	7 3/4	.13	.06
8725	7/16 x 1/2	41055	8 1/16	.21	.10
8725B	1/2 x 9/16	41057	8 11/16	.25	.11
8727	9/16 x 5/8	41058	9 3/8	.27	.12
8727A	5/8 x 11/16	41059	9 3/4	.35	.16
8729	5/8 x 3/4	41060	10 1/8	.42	.19
8029B	11/16 x 3/4	41035	10 1/2	.44	.20
8731A	3/4 x 7/8	41062	12	.58	.26
8031B	25/32 x 13/16	41038	12 1/2	.65	.30
8731B	13/16 x 7/8	41063	12 7/8	.71	.32
8033A	7/8 x 15/16	41040	13 3/8	1.0	.45
8033C	15/16 x 1	41041	14 3/8	.98	.44
8037	1 1/16 x 1 1/4	41044	17 1/4	1.8	.82
8037A	1 1/8 x 1 5/16	41045	18	2.8	1.3

Williams

Box Wrench Set

Double Head Modified Offset, Regular Length
12 Point Box

Set Cat. No. WS-8008 8 Tools and Roll R-23
EDP No. 49540 Weight 4.0 Lbs. – 1.8 Kg.

Number	Openings	Length
8721	5/16 x 3/8	7 1/2
8725	7/16 x 1/2	8 1/16
8727	9/16 x 5/8	9 3/8
8029B	11/16 x 3/4	10 1/2
8731B	13/16 x 7/8	12 7/8
8033C	15/16 x 1	14 3/8
8037	1 1/16 x 1 1/4	17 1/4
8037A	1 1/8 x 1 5/16	18

Set Cat No. WS-8008T 8 Tools EDP No. 49538

Williams

Check Nut Wrenches

Thin Single Head Open End, 15° Angle

Fed. Spec.: GGG-W-636E, Type XVII, Class 4

For check, jam, and locknuts, wherever a thin wrench is required.

Catalog Number	Opening	EDP Number	Length	Weight Lbs.	Kg.
601A	7/16	31022	4	.08	.04
601	1/2	31021	4	.05	.03
602A	9/16	31024	4 1/2	.11	.05
603A	5/8	31026	5 1/8	.13	.06
603	11/16	31025	5 1/8	.13	.06
604A	3/4	31028	6 1/8	.19	.09
605	7/8	31029	6 5/8	.28	.13
606	15/16	31031	7 1/2	.36	.16
606B	1	31032	7 1/2	.35	.16
607	1 1/16	31033	8 1/2	.66	.30
607A	1 1/8	31034	8 1/2	.65	.30
608	1 1/4	31035	10	1.12	.51
608A	1 5/16	31036	10	1.12	.51
609A	1 1/2	31038	11 3/8	1.5	.68
610	1 5/8	31039	13	2.3	1.0

Williams

Set Screw Wrenches

Single Box Head – Square Opening, 22 1/2° Angle
Black Finish

For square fasteners and set screws.

Catalog Number	Opening	EDP Number	Length	Weight Lbs.	Kg.
581	1/4	30980	3 3/8	.08	.04
582	5/16	30981	3 3/4	.11	.05
583	3/8	30982	4 1/4	.17	.08
584	7/16	30983	4 7/8	.25	.11
585	1/2	30984	5 1/2	.33	.15
587	5/8	30986	7	.61	.28
588	3/4	30987	8	.83	.38

Williams

Open End Wrenches

Single Head Open End, 15° Angle
Black Finish

Fed. Spec.: GGG-W-636E, Type V

A heavy-duty wrench, available in a wide range of openings. 15° angle accommodates nut rotation in a 30° arc, allowing use in confined areas.

Catalog Number	Opening	EDP Number	Length	Weight Lbs.	Kg.
BW-700	3/8	31159	4 1/8	.09	.04
BW-701	7/16	31160	4 3/4	.13	.06
BW-1	1/2	30005	4 5/8	.16	.07
BW-702	9/16	31161	5 1/2	.19	.09
BW-703	5/8	31162	6 3/8	.32	.15
BW-3	11/16	30007	6 3/8	.32	.15
BW-704	3/4	31163	7 1/4	.44	.20
BW-5	7/8	30009	8 1/8	.64	.29
BW-6	15/16	30010	9 1/4	.80	.36
BW-706	1	31165	9 1/4	.82	.37
BW-7	1 1/16	30012	10 1/2	1.26	.57
BW-707	1 1/8	31166	10 1/2	1.22	.55
BW-8	1 1/4	30013	12	2.1	.95
BW-708A	1 3/8	31167	12	2.0	.91
BW-9	1 7/16	30015	13 1/2	2.5	1.1
BW-709	1 1/2	31168	13 1/2	2.5	1.1
BW-10	1 5/8	30016	15	3.6	1.6
BW-10A	1 11/16	30017	15	3.5	1.6
BW-11	1 13/16	30018	16 1/2	5.0	2.3
BW-11A	1 7/8	30019	16 1/2	5.0	2.3
BW-12	2	30020	18 1/4	6.2	2.8
BW-13	2 3/16	30022	20	8.0	3.6
BW-13A	2 1/4	30023	20	8.0	3.6
BW-14	2 3/8	30024	22	9.6	4.4
BW-15	2 9/16	30026	24	13.2	6.0
BW-15A	2 5/8	30027	24	13.1	5.9
BW-16	2 3/4	30028	27	12.9	5.9
BW-16A	2 15/16	30029	27	16.0	7.3
BW-17A	3	30032	30	23.7	10.8
BW-17	3 1/8	30031	30	23.7	10.8
BW-18A	3 3/8	30034	34	31.6	14.3
BW-18	3 1/2	30033	34	31.6	14.3
BW-19B	3 3/4	30037	37	33.0	15.0
BW-19	3 7/8	30035	37	33.0	15.0
BW-19C	4 1/8	30038	37	32.5	14.8
BW-19A	4 1/4	30036	37	32.5	14.5
BW-20B	4 1/2	30041	42	50.5	22.9
BW-20	4 5/8	30039	37	31.0	14.1
BW-20A	5	30040	42	50.4	22.9
BW-21A	5 3/8	30042	47	90.5	41.1

Williams

Box Wrenches

Single Head, 15° Angle Box
6 Point Box
Black Finish

For heavy duty applications.

Catalog Number	Opening	EDP Number	Length	Weight Lbs.	Kg.
800	13/32	31251	3 1/2	.08	.04
801	1/2	31252	4	.11	.05
802A	9/16	31255	4 7/8	.17	.08
803A	5/8	31257	5 7/8	.25	.11
803	11/16	31256	5 7/8	.25	.11
804A	3/4	31259	6 7/8	.38	.17
805	7/8	31260	7 3/4	.52	.24
806	15/16	31262	8 3/4	.69	.31
806B	1	31263	8 3/4	.69	.31
807	1 1/16	31264	9 7/8	.95	.43
807A	1 1/8	31265	9 7/8	.95	.43
808	1 1/4	31266	11 1/2	1.4	.64
809	1 7/16	31268	13 3/8	2.0	.91
809A	1 1/2	31269	13 3/8	2.0	.91
810	1 5/8	31270	15 1/4	2.9	1.3

Williams

Ratcheting Box Wrenches

6 and 12 Point
Chrome Finish

Fed. Spec.: GGG-W-001405-1

Allows turning of fastener without removal of wrench. A must for applications where access is limited. Different opening sizes in each end.

Catalog Number	Openings	EDP Number	Length	Weight Lbs.	Kg.
RB-810	1/4 x 5/16	97362	4 1/4	.13	.06
RB-1214	3/8 x 7/16	97363	5 1/2	.19	.09
RB-1618	1/2 x 9/16	97364	6 3/4	.42	.19
RB-1820*	9/16 x 5/8	97368	8	.67	.30
RB-2022*	5/8 x 11/16	97365	8	.67	.30
RB-2024*	5/8 x 3/4	97366	8	.67	.30
RB-2428*	3/4 x 7/8	97367	9 1/4	.75	.34
RB-3036*	15/16 x 1 1/8	97384	15	1.6	.73
RB-3440*	1 1/16 x 1 1/4	97385	15	1.6	.73

*12 Point Openings

Williams

Ratcheting Box Wrench Set

6 and 12 Point

Set Cat. No. WS-12 5 Tools and Roll R-3
EDP No. 49560 Weight 2.2 Lbs. – .98 Kg.

Number	Openings	Length
RB-810	1/4 x 5/16	4 1/4
RB-1214	3/8 x 7/16	5 1/2
RB-1618	1/2 x 9/16	6 3/4
RB-2022*	5/8 x 11/16	8
RB-2428*	3/4 x 7/8	9 1/4

*12 Point Openings

Set Cat. No. WS-12T 5 Tools EDP No. 49558

Williams

Ratcheting Offset Box Wrenches

Double Head 15° Offset
12 Point Box
Chrome Finish

Catalog Number	Openings	EDP Number	Length	Weight Lbs.	Kg.
RBO-810	1/4 x 5/16	97389	4 3/32	.13	.06
RBO-1214	3/8 x 7/16	97390	5 7/32	.19	.09
RBO-1618	1/2 x 9/16	97391	6 15/32	.42	.19
RBO-2022	5/8 x 11/16	97392	7 21/32	.67	.30
RBO-2024	5/8 x 3/4	97393	7 21/32	.67	.30
RBO-2428	3/4 x 7/8	97394	8 3/4	.75	.34
RBO-2226	11/16 x 13/16	97395	8 3/4	.79	.36
RBO-2630	13/16 x 15/16	97396	8 3/4	.75	.34

Williams

Ratcheting Offset Box Wrench Set

12 Point 15° Offset

Set Cat. No. WS-5 5 Tools and Roll R-3
EDP No. 97397 Weight 1.25 Lbs. – .57 Kg.

Number	Openings	Length
RBO-810	1/4 x 5/16	4 3/32
RBO-1214	3/8 x 7/16	5 7/32
RBO-1618	1/2 x 9/16	6 15/32
RBO-2022	5/8 x 11/16	7 21/32
RBO-2428	3/4 x 7/8	8 3/4

Set Cat. No. WS-5T 5 Tools EDP No. 97427

Williams

Adjustable Wrenches

Chrome Finish

Fed. Spec.: GGG-W-631B-5, Type I, Class 1; ANSI B107.8

Manufactured in a wide range of sizes. Williams adjustables are designed to meet the industrial users requirements.

Catalog Number	EDP Number	Length	Weight Lbs.	Kg.
AP-4	60008	4	.11	.05
AP-6X	60175	6	.25	.11
AP-8X	60176	8	.51	.23
AP-10X	60177	10	.99	.45
AP-12X	60178	12	1.48	.67
AP-15X	60179	15	3.32	1.5
AP-18	60006	18	5.52	2.5

Black Finish

Catalog Number	EDP Number	Length	Weight Lbs.	Kg.
AB-4	60080	4	.11	.05
AB-6X	60181	6	.25	.11
AB-8X	60182	8	.51	.23
AB-10X	60183	10	.99	.45
AB-12X	60184	12	1.48	.67
AB-15X	60185	15	3.32	1.5
AB-18	60086	18	5.52	2.5
AB-24	60196	24	9.10	4.1

Williams

Adjustable Construction Wrench

Black Finish

Long handle is round with a tapered end.

Catalog Number	Capacity	EDP Number	Length	Weight Lbs.	Kg.
ABCN-12A	1 1/2	60088	15	2.3	.10

Williams

Construction Wrenches

Single Head Open End, 15° Angle
Black Finish

Nineteen wrench sizes are available. Straight handle with 15° angle opening.

Catalog Number	Opening	EDP Number	Length	Weight Lbs.	Kg.
201B	9/16	30363	9½	.27	.12
203A	5/8	30366	12	.53	.24
203	11/16	30365	12	.53	.24
204A	3/4	30368	12	.58	.26
205	7/8	30369	14½	1.0	.45
206	15/16	30371	14½	1.2	.54
206B	1	30372	14½	1.2	.54
207	1 1/16	30373	17	1.8	.82
207A	1 1/8	30374	17	1.8	.82
208	1 1/4	30375	19	2.7	1.2
208A	1 5/16	30376	19	2.7	1.2
209	1 7/16	30377	19	2.6	1.2
209A	1½	30378	19	2.6	1.2
210	1 5/8	30379	25	7.0	3.2
211	1 13/16	30381	25	6.9	3.1
211A	1 7/8	30382	25	6.9	3.1
212	2	30383	25	6.8	3.1

Williams

Structural Wrenches

Single Head Open End, Offset Handle
Black Finish

Fed. Spec.: GGG-W-636E, Type IX, Class 1

Twenty open end wrenches with offset heads to cover a wide range of fastener sizes from ½" to 2", with opening parallel with handle.

Catalog Number	Opening	EDP Number	Length	Weight Lbs.	Kg.
1901B	9/16	43086	9½	.43	.18
1903A	5/8	43088	9½	.43	.18
1903	11/16	43087	9½	.43	.18
1904A	3/4	43089	12	.70	.32
1905A	13/16	43090	14½	1.3	.59
1905	7/8	43092	14½	1.3	.59
1906	15/16	43091	14½	1.3	.59
1906B	1	43093	14½	1.3	.59
1907	1 1/16	43094	17	1.9	.86
1907A	1 1/8	43095	17	1.9	.82
1908	1 1/4	43096	19	2.6	1.2
1908A	1 5/16	43097	19	2.6	1.2
1909	1 7/16	43098	20	3.5	1.6
1909A	1½	43099	20	3.5	1.6
1910	1 5/8	43100	23	4.8	2.2
1910A	1 11/16	43101	22	5.9	2.7
1911	1 13/16	43102	22	5.8	2.7

Williams
Striking Face Wrenches
Offset Pattern
12 Point Box
Black Finish

Fed. Spec.: GGG-W-636E, Type XII

The offset handle provides needed clearance in confining areas.

Catalog Number	Opening	EDP Number	Length	Weight Lbs.	Kg.
8807	1 1/16	41126	10	2.1	.95
8807A	1 1/8	41127	10	2.1	.95
8808B	1 3/16	41222	11	2.5	1.1
8808	1 1/4	41128	11	2.5	1.1
8808A	1 5/16	41129	11	2.5	1.1
8809	1 7/16	41130	11 1/2	3.5	1.1
8809A	1 1/2	41131	11 1/2	3.5	1.1
8810	1 5/8	41132	12	4.5	2.0
8810A	1 11/16	41133	12	4.4	2.0
8811B	1 3/4	41146	12 1/2	5.8	2.6
8811	1 13/16	41134	12 1/2	5.6	2.5
8811A	1 7/8	41135	12 1/2	5.4	2.5
8812A	1 15/16	41147	13 1/2	6.8	3.1
8812	2	41136	13 1/2	6.5	3.0
8813B	2 1/8	41148	14 3/8	9.0	4.1
8813	2 3/16	41137	14 3/8	8.8	4.0
8813A	2 1/4	41138	14 3/8	8.8	4.0
8814A	2 5/16	41149	14	9.7	4.4
8814	2 3/8	41139	14	9.5	4.3
8815B	2 1/2	41150	14 1/2	10.6	4.8
8815	2 9/16	41140	14 1/2	10.4	4.7
8815A	2 5/8	41141	14 1/2	10.4	4.7
8816	2 3/4	41142	15	11.5	5.2
8816C	2 7/8	41151	16	15.3	7.0
8816B	2 15/16	41143	16	15.0	6.8
8817A	3	41145	16 1/2	18.4	8.4
8817	3 1/8	41144	16 1/2	17.8	8.1

Williams

Striking Face Wrenches

Straight Pattern
12 Point Box
Black Finish

Fed. Spec.: GGG-W-636E, Type XI, Styles 1 and 2

Specifically designed for rugged industrial applications. Ample striking face allows efficient rotation of large fasteners.

Catalog Number	Opening	EDP Number	Length	Weight Lbs.	Kg.
SFH-1808B	13/16	41228	7	1.4	.64
SFH-1808	1 1/4	40759	7	1.4	.64
SFH-1808A	1 5/16	40760	7	1.4	.64
SFH-1809	1 7/16	40761	8 1/4	2.1	.95
SFH-1809A	1 1/2	40762	8 1/4	2.1	.95
SFH-1810	1 5/8	40763	9	3.0	1.3
SFH-1810A	1 11/16	40764	9	3.0	1.3
SFH-1811	1 13/16	40765	10	3.9	1.8
SFH-1811A	1 7/8	40766	10	3.9	1.8
SFH-1812	2	40767	11	5.5	2.5
SFH-1813	2 3/16	40768	11	5.5	2.5
SFH-1813A	2 1/4	40769	11	5.5	2.5
SFH-1814	2 3/8	40770	13	9.1	4.1
SFH-1815	2 9/16	40771	13	9.1	4.1
SFH-1815A	2 5/8	40772	13	9.1	4.1
SFH-1816	2 3/4	40773	15 1/2	14.6	6.6
SFH-1816B	2 15/16	41227	15 1/2	14.6	6.6
SFH-1817A	3	40775	15 1/2	14.6	6.6
SFH-1817	3 1/8	40774	15 1/2	14.6	6.6
SFH-1818A	3 3/8	40777	17 1/4	18.9	8.6
SFH-1818	3 1/2	40776	17 1/4	18.9	8.6
SFH-1819B	3 3/4	40780	18	23.1	10.5
SFH-1819	3 7/8	40778	18	23.1	10.5
SFH-1819C	4 1/8	40781	19	27.7	12.6
SFH-1819A	4 1/4	40779	19	27.7	12.6
SFH-1820B	4 1/2	40783	20	34.1	15.5
SFH-1820	4 5/8	40782	20	34.1	15.5

Williams

Socket Head Screw Key Sets

Hexagon, Long Series
Cadmium Finish

Fed. Spec.: GGG-K-275D, Type I, Class 2 and Type IV

Hex keys in this set are made from selected steel, cadmium plated.

Set Cat. No. WS-44 13 Keys in Plastic Roll
EDP No. 97374 Weight .56 Lbs. – .25 Kg.

Size	Length	Size	Length
.050	1 3/4	5/32	2 1/2
1/16	1 13/16	3/16	2 3/4
5/64	1 7/8	7/32	3
3/32	2	1/4	3 1/4
7/64	2 1/8	5/16	2 13/16
1/8	2 1/4	3/8	4 1/4
9/64	2 3/8		

The keys in these two fold up sets are produced from quality 8650 chrome nickel alloy steel, hardened and tempered for long life.

Set Cat. No. WS-45 8 Keys in Metal Handle
EDP No. 97386 Weight .18 Lbs. – .08 Kg.

Size	Length	Size	Length
.050	1 1/4	7/64	1 5/8
1/16	1 3/8	1/8	1 11/16
5/64	1 7/16	9/64	1 13/16
3/32	1 9/16	5/32	2

Set Cat. No. WS-46 9 Keys in Metal Handle
EDP No. 97387 Weight .47 Lbs. – .21 Kg.

Size	Length	Size	Length
5/64	1 1/2	5/32	2 1/4
3/32	1 9/16	3/16	2 1/2
7/64	1 11/16	7/32	2 5/8
1/8	1 15/16	1/4	2 7/8
9/64	2		

Williams

Adjustable Hook Spanner Wrenches

Black Finish

Fed. Spec.: GGG-W-665-B-1, Type I, Class 1

Hook is an integral part of the jaw. Designed for service on all types of machine tools.

Catalog Number	Diameter Range Capacity	EDP Number	Hook Thickness	Hook Depth	Length	Weight Lbs.	Kg.
471	3/4 to 2	30750	11/32	1/8	6 3/8	.23	.10
472	1 1/4 to 3	30751	13/32	5/32	8 1/8	.43	.20
474	2 to 4 3/4	30752	15/32	3/16	11 3/8	1.03	.47
474A	4 1/2 to 6 1/4	30753	15/32	1/4	12 1/8	1.1	.50
474B	6 1/8 to 8 3/4	30758	15/32	5/16	13 3/4	1.4	.64

Williams
Pin Spanner Wrenches

Black Finish

Fed. Spec.: GGG-W-665B-1, Type II, Grade A

Pin end is forged integral with wrench and machined to finished diameter.

Catalog Number	Diameter Range Capacity	EDP Number	Pin Dia.	Pin Length	Length	Weight Lbs.	Kg.
452	1	30698	3/16	3/16	4	.08	.04
453	1 1/4	30699	13/64	3/16	4 1/2	.11	.05
454	1 1/2	30700	7/32	7/32	5	.13	.06
455	1 3/4	30701	15/64	7/32	5 1/2	.17	.08
456	2	30702	1/4	1/4	6	.20	.09
457	2 1/4	30703	17/64	1/4	6 1/2	.24	.11
458	2 1/2	30704	9/32	9/32	7	.28	.13
459	2 3/4	30705	19/64	9/32	7 1/2	.37	.17
460	3	30706	5/16	5/16	8	.43	.20
461	3 1/4	30707	21/64	5/16	8 1/2	.47	.21
462	3 1/2	30708	11/32	5/16	9	.50	.23
463	3 3/4	30709	23/64	3/8	9 1/2	.59	.27
464	4	30710	3/8	7/16	10	.69	.31
466	5	30711	7/16	7/16	12	1.2	.54
468	6	30712	1/2	1/2	14	1.9	.86

Williams
Adjustable Pin Spanner Wrenches

Black Finish

For adjustment of collars and locknuts.

Catalog Number	Diameter Range Capacity	EDP Number	Hook Thickness	Pin Dia.	Pin Length	Length	Weight Lbs.	Kg.
0-471	3/4 to 2	30741	11/32	1/8	1/8	6 3/8	.23	.11
0-471A	3/4 to 2	30744	11/32	3/16	5/32	6 3/8	.23	.11
0-472	1 1/4 to 3	30742	13/32	3/16	3/16	8 1/8	.42	.19
0-472A	1 1/4 to 3	30748	13/32	1/4	7/32	8 1/8	.42	.19
0-474	2 to 4 3/4	30743	15/32	1/4	1/4	11 3/8	.99	.45
0-474A	4 1/2 to 6 1/4	30745	15/32	3/8	1/4	12 1/8	1.1	.50

Williams
Face Spanner Wrenches

Black Finish

Fed. Spec.: GGG-W-665, B-1, Type III, Class 2

Pins are integrally forged with wrench and machined to finished diameter.

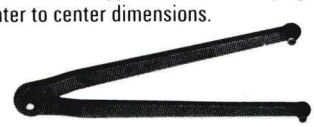
Catalog Number	Pin Distance Center to Center	Pin Length and Diameter	EDP Number	Length	Weight Lbs.	Kg.
418	1	3/16	30649	4 1/2	.13	.06
420	1 1/4	7/32	30650	5	.13	.06
422	1 1/2	7/32	30651	5 1/2	.23	.10
424	1 3/4	7/32	30652	6	.30	.14
426	2	1/4	30653	6 1/2	.39	.18
428	2 1/4	1/4	30654	7	.42	.19
430	2 1/2	9/32	30655	7 1/2	.52	.24
432	2 3/4	9/32	30656	8	.59	.27
434	3	5/16	30657	8 1/2	.70	.32
436	3 1/4	5/16	30658	9 1/8	.82	.37
438	3 1/2	5/16	30659	9 3/4	.89	.40
440	3 3/4	3/8	30660	10 3/8	1.0	.45
442	4	3/8	30661	11	1.1	.50

Williams
Adjustable Face Spanner Wrenches

Black Finish

Fed. Spec.: GGG-W-665-B-1, Type III, Class 1

Adjustable for applications with varying center to center dimensions.



Catalog Number	Extreme Capacity	EDP Number	Pin Dia.	Pin Length	Length	Weight Lbs.	Kg.
482	2	30754	3/16	1/4	6 3/8	.31	.14
483	3	30755	1/4	1/4	8 1/4	.52	.24
484	4	30756	5/16	1/2	10 3/8	1.0	.45

Williams®

Section 4

Fractional Hand Sockets

Williams fractional hand sockets are offered in a wide range of drive sizes (¼″ to 1″) and opening sizes (⅛″ to 3⅛″).

Sockets are precision extruded or hot broached, precision machined, fully heat-treated and chrome finished to provide a tool suitable for service in tough industrial environments.

Williams combination socket and drive tool sets are designed around the most common openings and drive sizes and satisfy industrial applications.

Refer to page 124 for product specifications.

Safe Use of Hand Sockets and Drive Tools

- To avoid premature breakage or wear, do not use hand sockets on power drive or impact tools.
- Adapting down in drive sizes can result in excessive torque application and possible failure of adapter.
- Sockets should be seated squarely with the fastener to minimize slippage and breakage.
- Use one extension of the correct length. Combinations of several extensions can result in a wobbly, off-line action.
- Good position and balance, pulling rather than pushing, will help prevent falls in the event of slippage or breakage.
- Inspect tools periodically and discard worn or damaged tools.

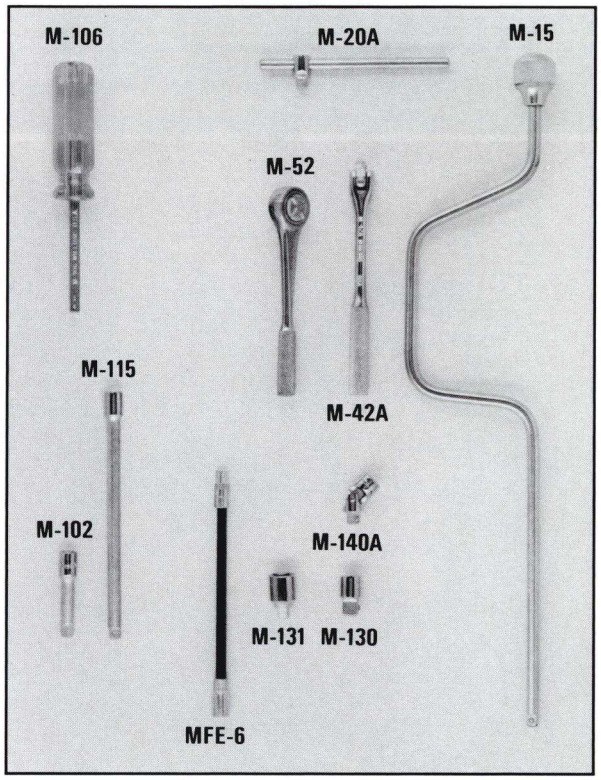
Conversion Chart For Fractional Socket Openings To Decimal And Millimeter Sizes On Page 78.

Williams has established a Custom Set Department dedicated to the make-up of tool sets to meet competitive or special purpose requirements. For a quick response, direct your inquiry or set specifications to our Customer Service Department.

Williams
¼" Drive Tools & Accessories

Fed. Spec.: GGG-W-641E; ANSI B107.10M

Engineered and manufactured to the most exacting specifications, Williams drive tools offer a lifetime of service and dependability.



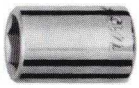
Catalog Number	EDP Number	Description	Length	Weight Lbs.	Kg.
M-52	58000	Ratchet – 45 tooth action	5	.16	.07
M-42A	50082	Flex Handle – knurled grip	5¾	.25	.11
M-15	50004	Speeder – knurled revolving grip	15¾	.59	.27
M-20A	50022	Sliding T Handle	4½	.10	.05
M-106	50028	Spinner Handle – plastic grip with ¼" drive opening in end	6	.19	.09
M-102	50027	Extension	2	.06	.03
M-115	50030	Extension	6	.17	.08
MFE-6	50098	Flexible Extension – ¼" dia. cable	6	.10	.05
MB-130	50100	Adapter – ¼" female & ⅜" male	15/16	.05	.02
MB-131	50101	Adapter – ¼" male & ⅜" female	1	.05	.02
M-140A	50007	Universal Joint	1 15/16	.04	.02

Repair Kits

Catalog Number	EDP Number	For	Qty	Description
M-52RK	50929	M-52	1	Runner Unit, Ring & Washer
MPA-52	59656	M-52	5	Runner Unit, Ring & Washer
M-42RK	54053	M-42A	1	Drive Tang, Spring & Hinge Pin

Williams
¼" Drive Regular Length Sockets

6 Point

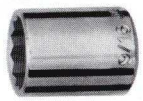


Fed. Spec.: GGG-W-641E, Type II, Class 1, Style A; ANSI B107.1, Class 1, Style A

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
M-604	51215	1/8	29/32	.01	.005
M-605	51216	5/32	29/32	.01	.005
M-606	50040	3/16	29/32	.01	.005
M-607	50041	7/32	29/32	.02	.009
M-608	50042	1/4	29/32	.02	.009
M-609	50043	9/32	29/32	.02	.009
M-610	50107	5/16	15/16	.02	.009
M-611	50109	11/32	15/16	.03	.014
M-612	50111	3/8	15/16	.03	.014
M-614	50113	7/16	15/16	.04	.018
M-616	50115	1/2	15/16	.05	.018
M-618	51214	9/16	15/16	.08	.036

Williams
¼" Drive Regular Length Sockets

12 Point



Fed. Spec.: GGG-W-641E, Type II, Class 2, Style A; ANSI B107.1, Class 1, Style A

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
M-1208	50768	1/4	29/32	.02	.01
M-1210	50046	5/16	15/16	.02	.01
M-1211	50047	11/32	15/16	.03	.01
M-1212	50048	3/8	15/16	.03	.01
M-1214	50049	7/16	15/16	.04	.02
M-1216	50050	1/2	15/16	.05	.02
M-1218	50766	9/16	15/16	.08	.04

Williams
¼" Drive Regular Length Socket Sets

6 & 12 Point

Set Cat. No. WSM-12HT 12 Sockets
EDP No. 92008 Weight .34 Lbs. – .15 Kg.

Number	Description
M-604	1/8 6 Pt Skt
M-605	5/32 6 Pt Skt
M-606	3/16 6 Pt Skt
M-607	7/32 6 Pt Skt
M-608	1/4 6 Pt Skt
M-609	9/32 6 Pt Skt

Number	Description
M-610	5/16 6 Pt Skt
M-611	11/32 6 Pt Skt
M-612	3/8 6 Pt Skt
M-614	7/16 6 Pt Skt
M-616	1/2 6 Pt Skt
M-618	9/16 6 Pt Skt

Set Cat. No. WSM-12T 12 Sockets
EDP No. 92011
Weight .36 Lbs. – .16 Kg.

Number	Description
M-604	1/8 6 Pt Skt
M-605	5/32 6 Pt Skt
M-606	3/16 6 Pt Skt
M-607	7/32 6 Pt Skt
M-608	1/4 6 Pt Skt
M-609	9/32 6 Pt Skt

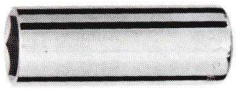
Number	Description
M-1210	5/16 12 Pt Skt
M-1211	11/32 12 Pt Skt
M-1212	3/8 12 Pt Skt
M-1214	7/16 12 Pt Skt
M-1216	1/2 12 Pt Skt
M-1218	9/16 12 Pt Skt

Williams
1/4" Drive Long Length Sockets

6 Point

Fed. Spec.: GGG-W-641E, Type II, Class 1, Style B; ANSI B107.1, Class 1, Style B

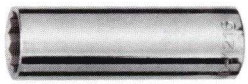
Designed for maximum clearance on long bolts.



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
MD-604	51217	1/8	2	.03	.01
MD-605	51218	5/32	2	.03	.01
MD-606	51219	3/16	2	.03	.01
MD-608	50051	1/4	2	.04	.02
MD-609	50052	9/32	2	.04	.02
MD-610	50108	5/16	2	.04	.02
MD-611	50110	11/32	2	.05	.02
MD-612	50112	3/8	2	.06	.03
MD-614	50114	7/16	2	.08	.04
MD-616	50116	1/2	2	.09	.04
MD-618	51221	9/16	2	.10	.05

12 Point

Fed. Spec.: GGG-W-641E, Type II, Class 2, Style B; ANSI B107.1, Class 1, Style B



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
MD-1210	50053	5/16	2	.04	.02
MD-1211	50054	11/32	2	.05	.02
MD-1212	50055	3/8	2	.06	.03
MD-1214	50056	7/16	2	.08	.04
MD-1216	50008	1/2	2	.09	.04
MD-1218	51220	9/16	2	.10	.05

Williams
1/4" Drive Long Length Socket Sets

6 & 12 Point

Set Cat. No. WSM-11T 11 Long Length Sockets
EDP No. 92030 Weight .63 Lbs. – .29 Kg.

Number	Description
MD-604	1/8 6 Pt Skt
MD-605	5/32 6 Pt Skt
MD-606	3/16 6 Pt Skt
MD-608	1/4 6 Pt Skt
MD-609	9/32 6 Pt Skt
MD-1210	5/16 12 Pt Skt

Number	Description
MD-1211	11/32 12 Pt Skt
MD-1212	3/8 12 Pt Skt
MD-1214	7/16 12 Pt Skt
MD-1216	1/2 12 Pt Skt
MD-1218	9/16 12 Pt Skt

Set Cat. No. WSM-11HT 11 Long Length Sockets
EDP No. 92014 Weight .63 Lbs. – .29 Kg.

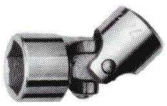
Number	Description
MD-604	1/8 6 Pt Skt
MD-605	5/32 6 Pt Skt
MD-606	3/16 6 Pt Skt
MD-608	1/4 6 Pt Skt
MD-609	9/32 6 Pt Skt
MD-610	5/16 6 Pt Skt

Number	Description
MD-611	11/32 6 Pt Skt
MD-612	3/8 6 Pt Skt
MD-614	7/16 6 Pt Skt
MD-616	1/2 6 Pt Skt
MD-618	9/16 6 Pt Skt

Williams
1/4" Drive Universal Sockets

6 Point

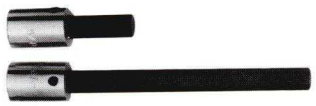
Use these sockets for those tight confines where a conventional socket cannot be used.



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
MU-610	51506	5/16	1 1/4	.05	.02
MU-612	51507	3/8	1 9/32	.05	.02
MU-614	51508	7/16	1 11/32	.06	.03
MU-616	51509	1/2	1 7/16	.06	.03

Williams
1/4" Drive Hex Bit Sockets

Available in a broad range of sizes from 5/64" to 5/16", Williams 1/4" drive hex bits offer maximum versatility for the electronic technician or the industrial mechanic. Sockets are chrome plated; hex bits have black finish. Sockets and bits are furnished disassembled.



Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
Short Hex Bits					
MA-050	51225	.050	1 11/16	.04	.02
MA-2	51226	1/16	1 11/16	.04	.02
MA-2 1/2	51227	5/64	1 51/64	.04	.02
MA-3	51026	3/32	1 51/64	.04	.02
MA-3 1/2	51228	7/64	1 51/64	.04	.02
MA-4	51027	1/8	1 27/32	.04	.02
MA-4 1/2	51229	9/64	1 3/4	.04	.02
MA-5	51028	5/32	1 3/4	.05	.02
MA-6	51029	3/16	1 3/4	.07	.03
MA-7	51030	7/32	1 3/4	.07	.03
MA-8	51230	1/4	1 49/64	.08	.04
MA-10	51045	5/16	1 49/64	.09	.04
Long Hex Bits					
MA-050L	51350	.050	2 3/4	.04	.02
MA-2L	51351	1/16	2 3/4	.04	.02
MA-2 1/2L	51352	5/64	2 55/64	.04	.02
MA-3L	51353	3/32	2 55/64	.04	.02
MA-3 1/2L	51354	7/64	2 55/64	.04	.02
MA-4L	51355	1/8	3 23/32	.04	.02
MA-4 1/2L	51356	9/64	3 5/8	.04	.02
MA-5L	51357	5/32	3 5/8	.06	.03
MA-6L	51358	3/16	3 5/8	.09	.04
MA-7L	51359	7/32	3 5/8	.09	.04
MA-8L	51360	1/4	4 41/64	.12	.05
MA-10L	51361	5/16	4 41/64	.16	.07

Williams
1/4" Drive Hex Bit Socket Set

Set Cat. No. WSM-13T 12 Short Hex Bit Sockets
EDP No. 92039 Weight .64 Lbs. – .29 Kg.

Number	Bit Size
MA-050	.050
MA-2	1/16
MA-2½	5/64
MA-3	3/32
MA-3½	7/64
MA-4	1/8
MA-4½	9/64
MA-5	5/32
MA-6	3/16
MA-7	7/32
MA-8	1/4
MA-10	5/16

Williams
Replacement Bits for Hex Bit Sockets

Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
Short Hex Bits					
A-050	51235	.050	1 1/16	.002	.001
A-2	51236	1/16	1 1/16	.002	.001
A-2½	51237	5/64	1 1/16	.003	.001
A-3	51000	3/32	1 1/16	.003	.001
A-3½	51238	7/64	1 1/16	.005	.002
A-4	51001	1/8	1 1/8	.006	.003
A-4½	51239	9/64	1 1/8	.009	.004
A-5	51002	5/32	1 1/8	.01	.005
A-6	51003	3/16	1 1/8	.01	.005
A-7	51004	7/32	1 1/8	.01	.005
A-8	51005	1/4	1 1/4	.02	.009
A-10	51006	5/16	1 1/4	.03	.009
Long Hex Bits					
A-050L	51241	.050	2 1/8	.004	.002
A-2L	51242	1/16	2 1/8	.004	.002
A-2½L	51243	5/64	2 1/8	.006	.003
A-3L	51013	3/32	2 1/8	.006	.003
A-3½L	51244	7/64	2 1/8	.01	.005
A-4L	51014	1/8	3	.01	.005
A-4½L	51245	9/64	3	.02	.009
A-5L	51015	5/32	3	.02	.009
A-6L	51016	3/16	3	.03	.014
A-7L	51017	7/32	3	.04	.018
A-8L	51018	1/4	4	.06	.027
A-10L	51019	5/16	4	.10	.045

Williams
1/4" Drive Slotted Screw Bit Sockets

Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
MA-10-1S	51200	3/16 x .032	2 15/64	.09	.04
MA-10-2S	51201	7/32 x .040	2 15/64	.09	.04
MA-10-3S	51202	9/32 x .045	2 15/64	.09	.04
MA-10-4S	51203	5/16 x .055	2 15/64	.09	.04

Replacement Bits For Slotted Screw Bit Sockets

Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
ASB-1	51047	3/16 x .032	1½	.03	.01
ASB-2	51048	7/32 x .040	1½	.03	.01
ASB-3	51049	9/32 x .045	1½	.03	.01
ASB-4	51050	5/16 x .055	1½	.03	.01

Williams
1/4" Drive Phillips Screw Bit Sockets

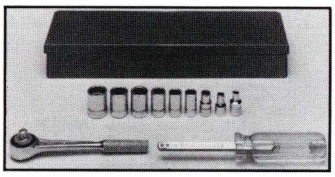
Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
MA-10-1P	51204	No. 1	1 63/64	.09	.04
MA-10-2P	51205	No. 2	1 63/64	.09	.04
MA-10-3P	51206	No. 3	1 63/64	.09	.04
MA-10-4P	51207	No. 4	1 63/64	.09	.04

Replacement Bits For Phillips Screw Bit Sockets

Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
APB-1	51051	No. 1	1¼	.03	.01
APB-2	51052	No. 2	1¼	.03	.01
APB-3	51053	No. 3	1¼	.03	.01
APB-4	51054	No. 4	1¼	.03	.01

Williams
¼" Drive Socket and Drive Tool Sets

Set Cat. No. WSM-1 11 Tools in TB-30 Box
EDP No. 95046 Weight 1.5 Lbs. – .69 Kg.



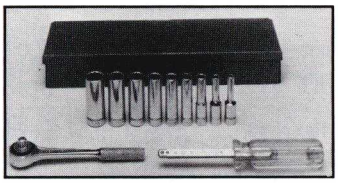
Number	Description
M-605	5/32 6 Pt Skt
M-606	3/16 6 Pt Skt
M-608	1/4 6 Pt Skt
M-1210	5/16 12 Pt Skt

Number	Description
M-1211	11/32 12 Pt Skt
M-1212	3/8 12 Pt Skt
M-1214	7/16 12 Pt Skt
M-1216	1/2 12 Pt Skt

Number	Description
M-1218	9/16 12 Pt Skt
M-52	Ratchet
M-106	Spinner Hdle

Set Cat. No. WSM-1T 11 Tools
EDP No. 95047 Weight .64 Lbs. – .29 Kg.

Set Cat. No. WSM-3 11 Tools in TB-30
EDP No. 95048 Weight 2.0 Lbs. – .91 Kg.



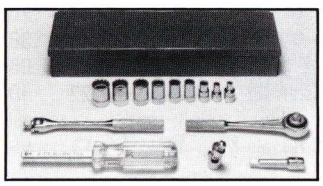
Number	Description
MD-605	5/32 6 Pt Dp Skt
MD-606	3/16 6 Pt Dp Skt
MD-608	1/4 6 Pt Dp Skt
MD-1210	5/16 12 Pt Dp Skt

Number	Description
MD-1211	11/32 12 Pt Dp Skt
MD-1212	3/8 12 Pt Dp Skt
MD-1214	7/16 12 Pt Dp Skt
MD-1216	1/2 12 Pt Dp Skt

Number	Description
MD-1218	9/16 12 Pt Dp Skt
M-52	Ratchet
M-106	Spinner Hdle

Set Cat. No. WSM-3T 11 Tools
EDP No. 95049 Weight .87 Lbs. – .39 Kg.

Set Cat. No. WSM-2 14 Tools in TB-30 Box
EDP No. 95050 Weight 2.9 Lbs. – 1.3 Kg.



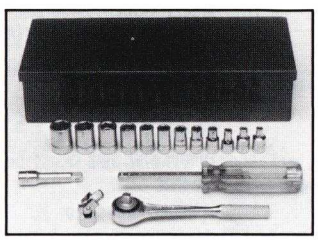
Number	Description
M-605	5/32 6 Pt Skt
M-606	3/16 6 Pt Skt
M-608	1/4 6 Pt Skt
M-1210	5/16 12 Pt Skt
M-1211	11/32 12 Pt Skt

Number	Description
M-1212	3/8 12 Pt Skt
M-1214	7/16 12 Pt Skt
M-1216	1/2 12 Pt Skt
M-1218	9/16 12 Pt Skt
M-42A	Flex Hdle

Number	Description
M-52	Ratchet
M-102	2" Extension
M-106	Spinner Hdle
M-140A	Universal Joint

Set Cat. No. WSM-2T 14 Tools
EDP No. 95051 Weight 1.0 Lbs. – .45 Kg.

Set Cat. No. WSM-2H 16 Tools in TB-30 Box
EDP No. 92073 Weight 2.7 Lbs. – 1.2 Kg.



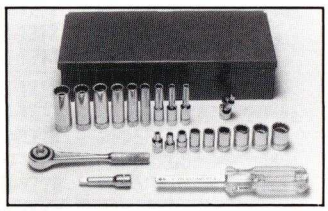
Number	Description
M-604	1/8 6 Pt Skt
M-605	5/32 6 Pt Skt
M-606	3/16 6 Pt Skt
M-607	7/32 6 Pt Skt
M-608	1/4 6 Pt Skt
M-609	9/32 6 Pt Skt

Number	Description
M-610	5/16 6 Pt Skt
M-611	11/32 6 Pt Skt
M-612	3/8 6 Pt Skt
M-614	7/16 6 Pt Skt
M-616	1/2 6 Pt Skt
M-618	9/16 6 Pt Skt

Number	Description
M-52	Ratchet
M-102	2" Extension
M-106	Spinner Hdle
M-140A	Universal Joint

Set Cat. No. WSM-2HT 16 Tools
EDP No. 92071 Weight .8 Lbs. – .36 Kg.

Set Cat. No. WSM-9 22 Tools in TB-30
EDP No. 95052 Weight 3.2 Lbs. – 1.4 Kg.



Number	Description
M-605	5/32 6 Pt Skt
M-606	3/16 6 Pt Skt
M-608	1/4 6 Pt Skt
M-1210	5/16 12 Pt Skt
M-1211	11/32 12 Pt Skt
M-1212	3/8 12 Pt Skt
M-1214	7/16 12 Pt Skt
M-1216	1/2 12 Pt Skt

Number	Description
M-1218	9/16 12 Pt Skt
MD-605	5/32 6 Pt Dp Skt
MD-606	3/16 6 Pt Dp Skt
MD-608	1/4 6 Pt Dp Skt
MD-1210	5/16 12 Pt Dp Skt
MD-1211	11/32 12 Pt Dp Skt
MD-1212	3/8 12 Pt Dp Skt

Number	Description
MD-1214	7/16 12 Pt Dp Skt
MD-1216	1/2 12 Pt Dp Skt
MD-1218	9/16 12 Pt Dp Skt
M-52	Ratchet
M-102	2" Extension
M-106	Spinner Hdle
M-140A	Universal Joint

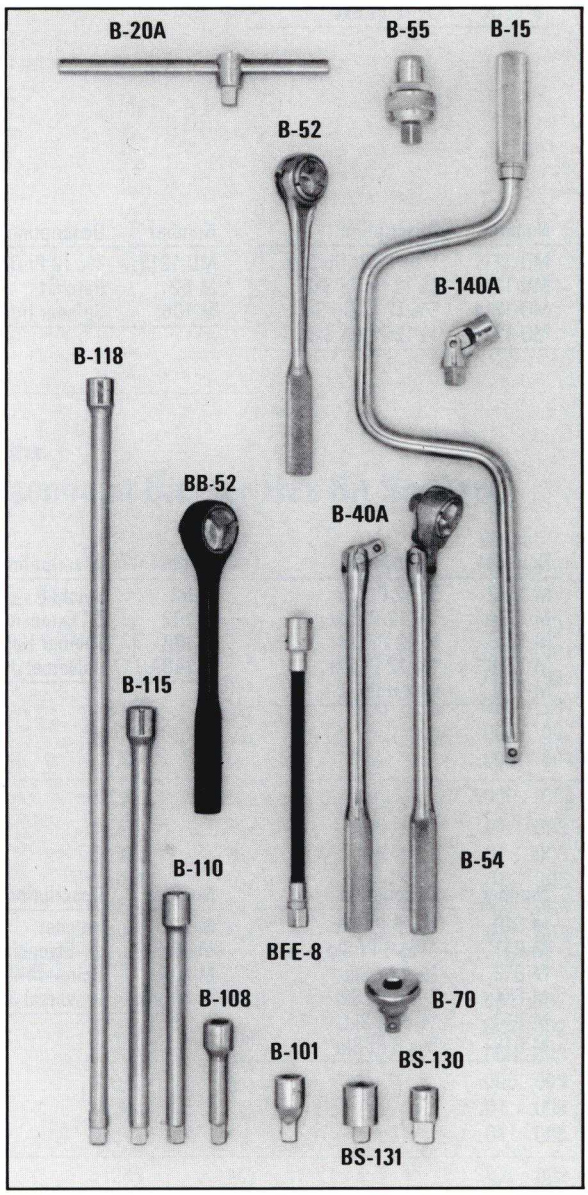
Set Cat. No. WSM-9T 22 Tools
EDP No. 95053 Weight 1.3 Lbs. – .59 Kg.

Williams

3/8" Drive Tools & Accessories

Fed. Spec.: GGG-W-641E; ANSI B107.10M

Williams 82 tooth ratchets operate within a 4½° handle swing, allowing rotation of fasteners in confined areas. Combine Williams ratchets with our broad selection of drive tools and accessories for the toughest industrial applications.



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
B-52	50192	Ratchet – 82 tooth action	7⅝	.56	.25
B-54	50485	Flex Head Ratchet – 82 tooth action	10½	.81	.37
BB-52	58095	Ratchet – 82 tooth action black finish	7⅝	.56	.25
B-70	50036	Ratchet Spinner	1 5/16	.16	.07
B-55	54048	Ratchet Adapter – 41 teeth	2⅛	.31	.14
B-40A	50130	Flex Hdle – flex head, knurled grip	9⅝	.57	.26
B-15	50126	Speeder – knurled revolving grip	16⅛	1.1	.50
B-20A	50127	Sliding T Hdle	6½	.26	.12
B-101	50364	Extension	1½	.10	.05
B-108	50138	Extension	3	.16	.07
B-110	50139	Extension	6	.35	.16
B-115	50140	Extension	10	.44	.20
B-118	50141	Extension	18	.84	.38
B-140A	50145	Universal Joint	2	.13	.06
BFE-8	51247	Flexible Extension – 5/16" diameter cable	7¼	.22	.10
BS-130	50143	Adapter – 3/8" female & ½" male	1 9/32	.13	.06
BS-131	50144	Adapter – 3/8" male & ½" female	1½	.15	.07

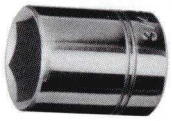
Repair Kits

Catalog Number	EDP Number	For	Qty	Description
B-52RK	51347	B-52, B-54 & BB-52	1	runner unit & ring
BPA-52	59660	B-52, B-54 & BB-52	5	runner unit, ring & one (1) wrench
BB-71RK	50931	BB-71	1	runner unit, ring & washer
B-52W	50551	B-52 & B-54	1	spanner wrench for 3/8" drive rings
B-40RK	54057	B-40A & BB-40A	1	drive tang, spring & hinge pin
B-54RK	54049	B-54	1	spring, hinge pin

Williams
3/8" Drive Regular Length Sockets & Set
6 Point

Fed. Spec.: GGG-W-641E, Type II, Class 1, Style A; ANSI B107.1, Class 1, Style A

Extruded fully heat-treated and polished chrome sockets are engineered for repeated service on industry's most demanding jobs.



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
B-608	50148	1/4	17/32	.06	.03
B-610	50196	5/16	17/32	.05	.02
B-611	50197	11/32	17/32	.05	.02
B-612	50198	3/8	17/32	.05	.02
B-614	50199	7/16	17/32	.06	.03
B-616	50200	1/2	17/32	.07	.03
B-618	50201	9/16	17/32	.09	.04
B-620	50202	5/8	17/32	.09	.04
B-622	50203	11/16	17/32	.11	.05
B-624	50204	3/4	17/32	.15	.07
B-626	50769	13/16	15/16	.17	.08
B-628	50770	7/8	15/16	.18	.08

Set Cat. No. WSB-10H 10 Sockets in TBT-7 Tray
EDP No. 92150 Weight 1.2 Lbs. – .54 Kg.

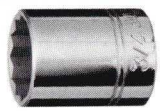
Number	Description
B-608	1/4 6 Pt Skt
B-610	5/16 6 Pt Skt
B-611	11/32 6 Pt Skt
B-612	3/8 6 Pt Skt
B-614	7/16 6 Pt Skt

Number	Description
B-616	1/2 6 Pt Skt
B-618	9/16 6 Pt Skt
B-620	5/8 6 Pt Skt
B-622	11/16 6 Pt Skt
B-624	3/4 6 Pt Skt

Set Cat. No. WSB-10HT 10 Sockets
EDP No. 92148 Weight .78 Lbs. – .35 Kg.

Williams
3/8" Drive Regular Length Sockets
12 Point

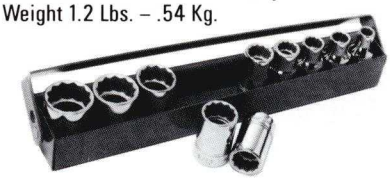
Fed. Spec.: GGG-W-641E, Type II, Class 2, Style A; ANSI B107.1, Class 1, Style A



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
B-1208	50767	1/4	17/32	.06	.03
B-1210	50149	5/16	17/32	.05	.02
B-1211	50150	11/32	17/32	.05	.02
B-1212	50151	3/8	17/32	.05	.02
B-1214	50152	7/16	17/32	.06	.03
B-1216	50153	1/2	17/32	.07	.03
B-1217	50205	17/32	17/32	.08	.04
B-1218	50154	9/16	17/32	.09	.04
B-1219	50206	19/32	17/32	.08	.04
B-1220	50155	5/8	17/32	.09	.04
B-1222	50156	11/16	17/32	.11	.05
B-1224	50157	3/4	17/32	.15	.07
B-1226	50207	13/16	15/16	.17	.08
B-1228	50208	7/8	15/16	.18	.08
B-1230	50842	15/16	15/16	.20	.09
B-1232	50843	1	15/16	.26	.12

Williams
3/8" Drive Regular Length Socket Set
12 Point

Set Cat. No. WSB-10 10 Sockets in TBT-7 Tray
EDP No. 92155 Weight 1.2 Lbs. – .54 Kg.



Number	Description
B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt

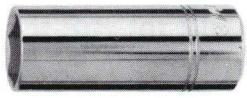
Number	Description
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt

Set Cat. No. WSB-10T 10 Sockets
EDP No. 92153 Weight .78 Lbs. – .35 Kg.

Williams
3/8" Drive Long Length Sockets & Set
6 Point

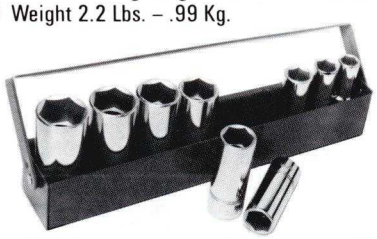
Fed. Spec.: GGG-W-641E, Type II, Class 1, Style B; ANSI B107.1, Class 1, Style B

Sized to fit a wide range of fastener sizes from 3/8 to 7/8".



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
BD-612	50711	3/8	2	.09	.04
BD-614	50712	7/16	2	.10	.05
BD-616	50713	1/2	2	.10	.05
BD-618	50714	9/16	2	.13	.05
BD-620	50715	5/8	2 1/4	.16	.07
BD-622	50716	11/16	2 3/8	.22	.10
BD-624	50717	3/4	2 1/2	.22	.10
BD-626	50718	13/16	2 5/8	.24	.11
BD-628	50720	7/8	2 5/8	.35	.16

Set Cat. No. WSB-11H 9 Long Length Sockets in TBT-8 Tray
EDP No. 92163 Weight 2.2 Lbs. – .99 Kg.

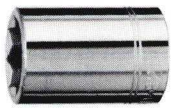


Number	Description
BD-612	3/8 6 Pt Dp Skt
BD-614	7/16 6 Pt Dp Skt
BD-616	1/2 6 Pt Dp Skt
BD-618	9/16 6 Pt Dp Skt
BD-620	5/8 6 Pt Dp Skt

Number	Description
BD-622	11/16 6 Pt Dp Skt
BD-624	3/4 6 Pt Dp Skt
BD-626	13/16 6 Pt Dp Skt
BD-628	7/8 6 Pt Dp Skt

Set Cat. No. WSB-11HT 9 Long Length Sockets
EDP No. 92161 Weight 1.6 Lbs. – .73 Kg.

Williams
3/8" Drive Long Length Sockets
8 Point

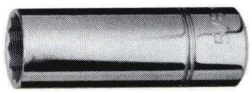


Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
B-409	50195	9/32*	1 1/4	.05	.02
BD-814	50158	7/16	1 7/32	.09	.04
BD-816	50159	1/2	1 7/32	.13	.06
BD-818	50160	9/16	1 7/32	.14	.06
BD-820	50161	5/8	1 7/32	.18	.08

*4 Point opening for use on 1/8" Pipe and Drain Plugs.

Williams
3/8" Drive Long Length Sockets & Set
12 Point

Fed. Spec.: GGG-W-641E, Type II, Class 2, Style B; ANSI B107.1, Class 1, Style B



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
BD-1212	50190	3/8	2	.09	.04
BD-1214	50162	7/16	2	.10	.05
BD-1216	50163	1/2	2	.10	.05
BD-1218	50164	9/16	2	.13	.06
BD-1220	50165	5/8	2 1/4	.16	.07
BD-1222	50166	11/16	2 3/8	.22	.10
BD-1224	50167	3/4	2 1/2	.22	.10
BD-1226	50168	13/16	2 5/8	.24	.11
BD-1228	50191	7/8	2 5/8	.35	.16

Set Cat. No. WSB-11 9 Long Length Sockets in TBT-8 Tray
EDP No. 92168 Weight 2.2 Lbs. – .99 Kg.

Number	Description
BD-1212	3/8 12 Pt Dp Skt
BD-1214	7/16 12 Pt Dp Skt
BD-1216	1/2 12 Pt Dp Skt
BD-1218	9/16 12 Pt Dp Skt
BD-1220	5/8 12 Pt Dp Skt

Number	Description
BD-1222	11/16 12 Pt Dp Skt
BD-1224	3/4 12 Pt Dp Skt
BD-1226	13/16 12 Pt Dp Skt
BD-1228	7/8 12 Pt Dp Skt

Set Cat. No. WSB-11T 9 Long Length Sockets
EDP No. 92166 Weight 1.6 Lbs. – .73 Kg.

Williams
3/8" Drive Universal Sockets & Set
12 Point

Fed. Spec.: GGG-W-641E, Type II, Class 4; ANSI B107.1, Class 3

Versatile universal sockets feature an operating range of 130° and tension springs to hold operating angle.

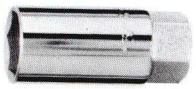
Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
BU-1212	50169	3/8	1 25/32	.11	.05
BU-1214	50170	7/16	1 13/16	.11	.05
BU-1216	50171	1/2	1 27/32	.11	.05
BU-1218	50172	9/16	1 57/64	.12	.05
BU-1220	50173	5/8	1 61/64	.13	.06
BU-1222	50174	11/16	1 63/64	.13	.06
BU-1224	50175	3/4	2 1/64	.15	.07

Set Cat. No. WSB-12T 7 Universal Sockets
EDP No. 92171 Weight .86 Lbs. – .39 Kg.

Williams
3/8" Drive Spark Plug Sockets

Fed. Spec.: GGG-W-641E, Type II, Class 5

Rubber insert holds plug and prevents damage to spark plug insulator. External hex allows socket to be turned by wrench in confined applications.



Catalog Number	EDP Number	Opening	Male Hex	Length	Weight Lbs.	Kg.
BD-620P	58036	5/8	11/16	2 5/16	.23	.10
BD-626P	58040	13/16	7/8	2 5/16	.36	.16

Williams
3/8" Drive Hex Bit Sockets

Hex bit sockets are offered in a wide choice of sizes and types to fit almost any industrial requirement. Sockets are chrome plated; hex bits have black industrial finish. Sockets and bits are furnished disassembled.

Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
Short Hex Bits					
BA-3	51031	3/32	1 51/64	.07	.03
BA-4	51032	1/8	1 27/32	.07	.03
BA-5	51033	5/32	1 27/32	.07	.03
BA-6	51034	3/16	1 3/4	.08	.04
BA-7	51035	7/32	1 3/4	.08	.04
BA-8	51036	1/4	1 49/64	.08	.04
BA-10	51037	5/16	1 51/64	.11	.05
BA-12	51038	3/8	2 9/64	.14	.06
Long Hex Bits					
BA-3L	51265	3/32	2 55/64	.08	.04
BA-4L	51266	1/8	2 23/64	.08	.04
BA-5L	51267	5/32	2 23/64	.08	.04
BA-6L	51268	3/16	3 5/8	.10	.05
BA-7L	51269	7/32	3 5/8	.10	.05
BA-8L	51270	1/4	4 41/64	.12	.05
BA-10L	51271	5/16	4 49/64	.17	.08
BA-12L	51272	3/8	5 59/64	.25	.11

Replacement Bits for Hex Bit Sockets

Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
Short Hex Bits					
A-3	51000	3/32	1 1/16	.003	.001
A-3-½	51238	7/64	1 1/16	.005	.002
A-4	51001	1/8	1 1/8	.006	.003
A-4-½	51239	9/64	1 1/8	.009	.004
A-5	51002	5/32	1 1/8	.01	.005
A-6	51003	3/16	1 1/8	.01	.005
A-7	51004	7/32	1 1/8	.01	.005
A-8	51005	1/4	1 1/4	.02	.009
A-10	51006	5/16	1 1/4	.03	.014
A-12	51007	3/8	1 3/8	.05	.023
Long Hex Bits					
A-3L	51013	3/32	2 1/8	.006	.003
A-3-½L	51244	7/64	2 1/8	.01	.005
A-4L	51014	1/8	3	.01	.005
A-4-½L	51245	9/64	3	.02	.009
A-5L	51015	5/32	3	.02	.009
A-6L	51016	3/16	3	.03	.014
A-7L	51017	7/32	3	.04	.018
A-8L	51018	1/4	4	.06	.027
A-10L	51019	5/16	4	.10	.045
A-12L	51020	3/8	5	.18	.081

Williams
3/8" Drive Hex Bit Socket Set

Set Cat. No. WSB-13 8 Short Hex Bit Sockets in TBT-13 Tray
EDP No. 92179 Weight 1.2 Lbs. – .55 Kg.

Number	Bit Size
BA-3	3/32
BA-4	1/8
BA-5	5/32
BA-6	3/16
BA-7	7/32
BA-8	1/4
BA-10	5/16
BA-12	3/8

Set Cat. No. WSB-13T 8 Short Hex Bit Sockets
EDP No. 92177 Weight .70 Lbs. – .32 Kg.

Williams
3/8" Drive Slotted Screw Bit Sockets

Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
BA-10-1S	51273	3/16 x .032	2 1/4	.11	.05
BA-10-2S	51274	7/32 x .040	2 1/4	.11	.05
BA-10-3S	51275	9/32 x .045	2 1/4	.11	.05
BA-10-4S	51276	5/16 x .055	2 1/4	.11	.05

Replacement Bits for Slotted Screw Bit Sockets

Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
ASB-1	51047	3/16 x .032	1 1/2	.03	.01
ASB-2	51048	7/32 x .040	1 1/2	.03	.01
ASB-3	51049	9/32 x .045	1 1/2	.03	.01
ASB-4	51050	5/16 x .055	1 1/2	.03	.01

Williams
3/8" Drive Phillips Screw Bit Sockets

Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
BA-10-1P	51277	No. 1	2	.11	.05
BA-10-2P	51278	No. 2	2	.11	.05
BA-10-3P	51279	No. 3	2	.11	.05
BA-10-4P	51280	No. 4	2	.11	.05

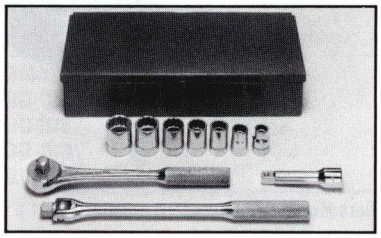
Replacement Bits for Phillips Screw Bit Sockets

Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
APB-1	51051	No. 1	1 1/4	.03	.01
APB-2	51052	No. 2	1 1/4	.03	.01
APB-3	51053	No. 3	1 1/4	.03	.01
APB-4	51054	No. 4	1 1/4	.03	.01

Williams
3/8" Drive Socket & Drive Tool Sets

Williams 3/8" drive sets offer the right socket for most service or maintenance requirements.

Set Cat. No. WSB-16 10 Tools in TB-31 Box
EDP No. 95058 Weight 3.3 Lbs. – 1.4 Kg.



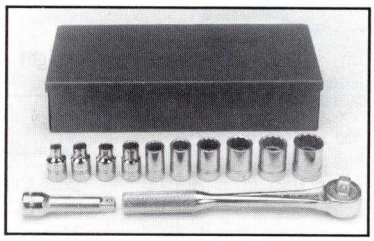
Number	Description
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt

Number	Description
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt

Number	Description
B-40A	Flex Hdle
B-52	Ratchet
B-108	3" Extension

Set Cat. No. WSB-16T 10 Tools
EDP No. 95059 Weight 1.2 Lbs. – .54 Kg.

Set Cat. No. WSB-1 12 Tools in TB-31 Box
EDP No. 92236 Weight 2.3 Lbs. – .98 Kg.



Number	Description
B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt

Number	Description
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8 12 Pt Skt

Number	Description
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt
B-52	Ratchet
B-108	3" Extension

Set Cat. No. WSB-1T 12 Tools
EDP No. 92234 Weight 1.2 Lbs. – .52 Kg.

Set Cat. No. WSB-1H 12 Tools in TB-31 Box
EDP No. 92231 Weight 2.3 Lbs. – .98 Kg.

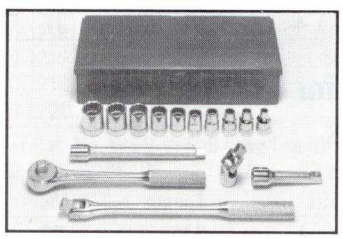
Number	Description
B-608	1/4 6 Pt Skt
B-610	5/16 6 Pt Skt
B-611	11/32 6 Pt Skt
B-612	3/8 6 Pt Skt

Number	Description
B-614	7/16 6 Pt Skt
B-616	1/2 6 Pt Skt
B-618	9/16 6 Pt Skt
B-620	5/8 6 Pt Skt

Number	Description
B-622	11/16 6 Pt Skt
B-624	3/4 6 Pt Skt
B-52	Ratchet
B-108	3" Extension

Set Cat. No. WSB-1HT 12 Tools
EDP No. 92229 Weight 1.2 Lbs. – .52 Kg.

Set Cat. No. WSB-4 15 Tools in TB-31 Box
EDP No. 94032 Weight 3.3 Lbs. – 1.5 Kg.



Number	Description
B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt

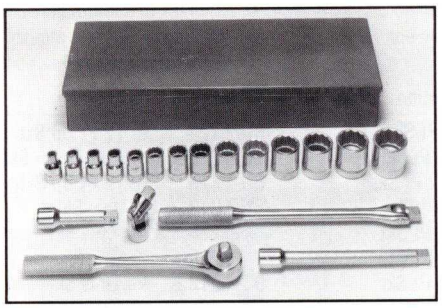
Number	Description
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt

Number	Description
B-52	Ratchet
B-108	3" Extension
B-110	6" Extension
B-40A	Flex Hdle
B-140A	Universal Joint

Set Cat. No. WSB-4T 15 Tools
EDP No. 94030 Weight 1.2 Lbs. – .55 Kg.

Williams
3/8" Drive Socket & Drive Tool Sets

Set Cat. No. WSB-7 19 Tools in TB-31 Box
EDP No. 94049 Weight 4.0 Lbs. – 1.8 Kg.



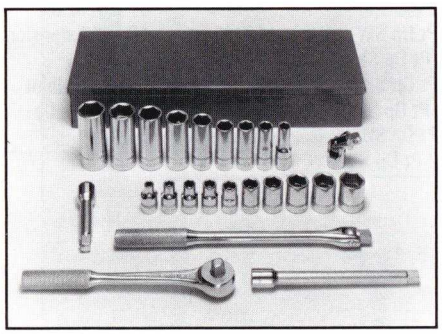
Number	Description
B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt

Number	Description
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt
B-1226	13/16 12 Pt Skt
B-1228	7/8 12 Pt Skt
B-1230	15/16 12 Pt Skt
B-1232	1 12 Pt Skt

Number	Description
B-52	Ratchet
B-108	3" Extension
B-110	6" Extension
B-40A	Flex Hdle
B-140A	Universal Joint

Set Cat. No. WSB-7T 19 Tools
EDP No. 94047 Weight 2.0 Lbs. – .9 Kg.

Set Cat. No. WSB-19 24 Tools in TB-4A Box
EDP No. 94054 Weight 7.4 Lbs. – 3.4 Kg.



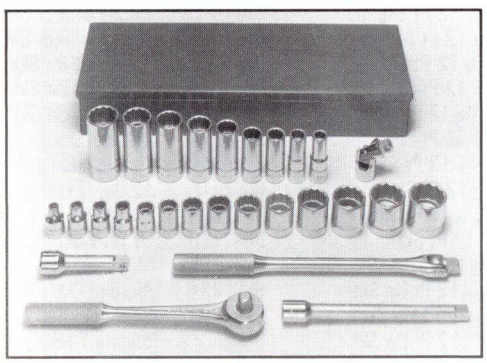
Number	Description
B-608	1/4 6 Pt Skt
B-610	5/16 6 Pt Skt
B-611	11/32 6 Pt Skt
B-612	3/8 6 Pt Skt
B-614	7/16 6 Pt Skt
B-616	1/2 6 Pt Skt
B-618	9/16 6 Pt Skt
B-620	5/8 6 Pt Skt
B-622	11/16 6 Pt Skt
B-624	3/4 6 Pt Skt

Number	Description
BD-612	3/8 6 Pt Dp Skt
BD-614	7/16 6 Pt Dp Skt
BD-616	1/2 6 Pt Dp Skt
BD-618	9/16 6 Pt Dp Skt
BD-620	5/8 6 Pt Dp Skt
BD-622	11/16 6 Pt Dp Skt
BD-624	3/4 6 Pt Dp Skt
BD-626	13/16 6 Pt Dp Skt
BD-628	7/8 6 Pt Dp Skt

Number	Description
B-52	Ratchet
B-108	3" Extension
B-110	6" Extension
B-40A	Flex Hdle
B-140A	Universal Joint

Set Cat. No. WSB-19T 24 Tools
EDP No. 94052 Weight 5.4 Lbs. – 2.4 Kg.

Set Cat. No. WSB-18 28 Tools In TB-4A Box
EDP No. 94059 Weight 8.2 Lbs. – 3.7 Kg.



Number	Description
B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt
B-1226	13/16 12 Pt Skt

Number	Description
B-1228	7/8 12 Pt Skt
B-1230	15/16 12 Pt Skt
B-1232	1 12 Pt Skt
BD-1212	3/8 12 Pt Dp Skt
BD-1214	7/16 12 Pt Dp Skt
BD-1216	1/2 12 Pt Dp Skt
BD-1218	9/16 12 Pt Dp Skt
BD-1220	5/8 12 Pt Dp Skt
BD-1222	11/16 12 Pt Dp Skt
BD-1224	3/4 12 Pt Dp Skt
BD-1226	13/16 12 Pt Dp Skt

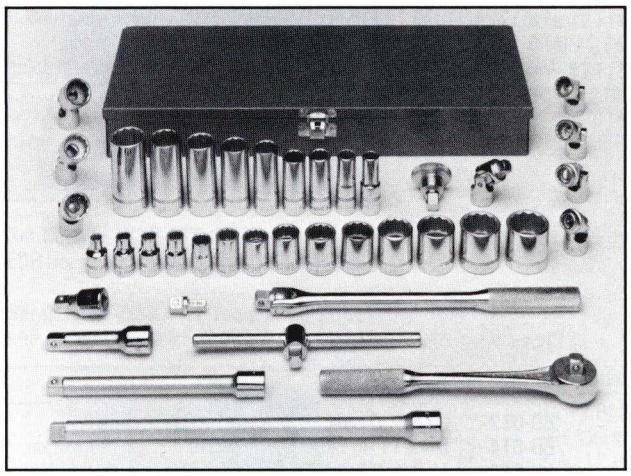
Number	Description
BD-1228	7/8 12 Pt Dp Skt
B-52	Ratchet
B-108	3" Extension
B-110	6" Extension
B-40A	Flex Hdle
B-140A	Universal Joint

Set Cat. No. WSB-18T 28 Tools
EDP No. 94057 Weight 6.2 Lbs. – 2.8 Kg.

Williams
3/8" Drive Socket & Drive Tool Sets

Set Cat. No. WSB-5 39 Tools in TB-4A Box
EDP No. 95060 Weight 16.2 Lbs. – 7.4 Kg.

An intermediate set with a full range of regular and deep sockets and an ample assortment of drive tools. Box has plenty of space for additional items.



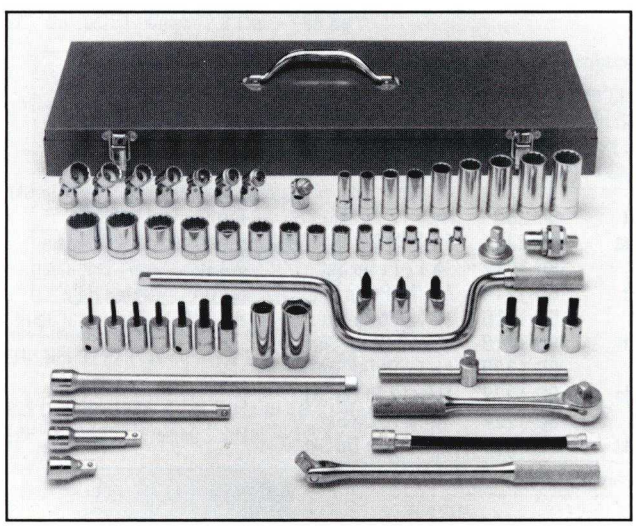
Set Cat. No. WSB-5T 39 Tools
EDP No. 95061 Weight 13.0 Lbs. – 5.9 Kg.

Number	Description
B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt
B-1226	13/16 12 Pt Skt
B-1228	7/8 12 Pt Skt
B-1230	15/16 12 Pt Skt
B-1232	1 12 Pt Skt
BD-1212	3/8 12 Pt Dp Skt
BD-1214	7/16 12 Pt Dp Skt
BD-1216	1/2 12 Pt Dp Skt
BD-1218	9/16 12 Pt Dp Skt
BD-1220	5/8 12 Pt Dp Skt
BD-1222	11/16 12 Pt Dp Skt

Number	Description
BD-1224	3/4 12 Pt Dp Skt
BD-1226	13/16 12 Pt Dp Skt
BD-1228	7/8 12 Pt Dp Skt
BU-1212	3/8 Univ Skt
BU-1214	7/16 Univ Skt
BU-1216	1/2 Univ Skt
BU-1218	9/16 Univ Skt
BU-1220	5/8 Univ Skt
BU-1222	11/16 Univ Skt
BU-1224	3/4 Univ Skt
B-52	Ratchet
B-101	1 1/2" Extension
B-108	3" Extension
B-110	6" Extension
B-115	10 1/2" Extension
B-40A	Flex Hdle
B-140A	Universal Joint
B-20A	Sliding T Hdle
B-70	Spinner

Set Cat. No. WSB-6 57 Tools in TB-7 Box
EDP No. 95062 Weight 15.6 Lbs. – 7.1 Kg.

This master 3/8" drive set offers the full range of regular, deep, universal and hex bit sockets, as well as drive tools.



Set Cat. No. WSB-6T 57 Tools
EDP No. 95063 Weight 9.2 Lbs. – 4.2 Kg.

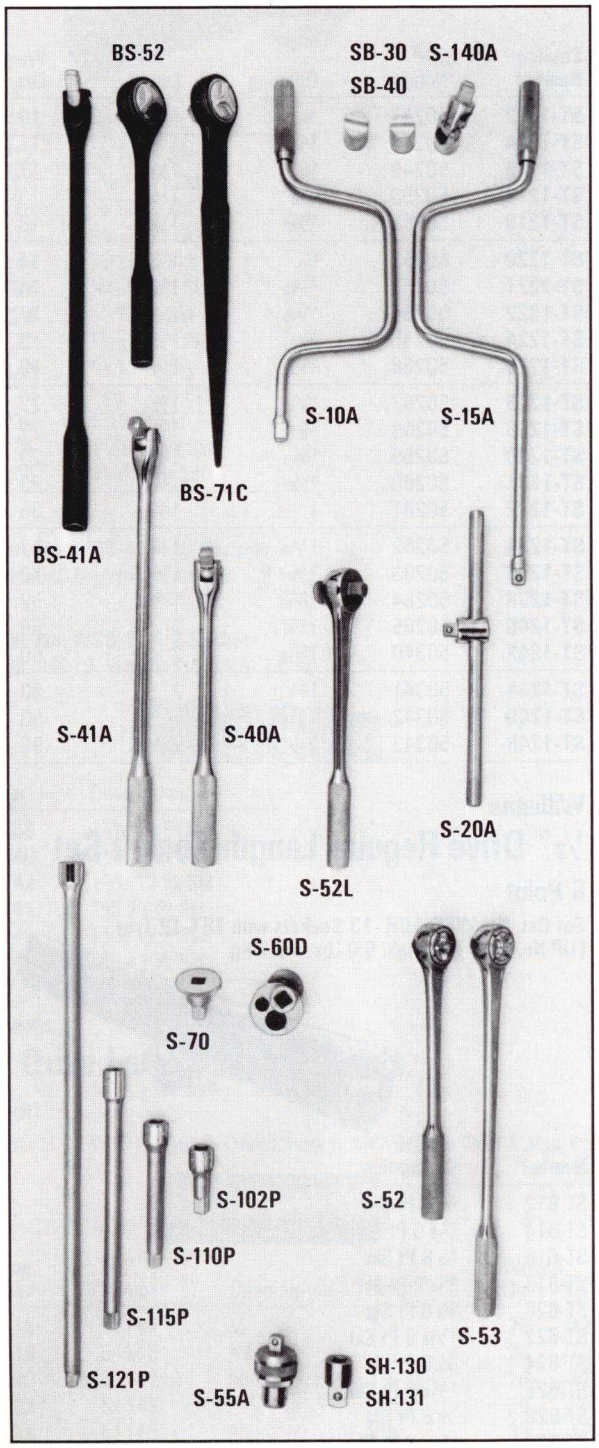
Number	Description
B-1208	1/4 12 Pt Skt
B-1210	5/16 12 Pt Skt
B-1211	11/32 12 Pt Skt
B-1212	3/8 12 Pt Skt
B-1214	7/16 12 Pt Skt
B-1216	1/2 12 Pt Skt
B-1218	9/16 12 Pt Skt
B-1220	5/8 12 Pt Skt
B-1222	11/16 12 Pt Skt
B-1224	3/4 12 Pt Skt
B-1226	13/16 12 Pt Skt
B-1228	7/8 12 Pt Skt
B-1230	15/16 12 Pt Skt
B-1232	1 12 Pt Skt
BD-1212	3/8 12 Pt Dp Skt
BD-1214	7/16 12 Pt Dp Skt
BD-1216	1/2 12 Pt Dp Skt
BD-1218	9/16 12 Pt Dp Skt
BD-1220	5/8 12 Pt Dp Skt
BD-1222	11/16 12 Pt Dp Skt
BD-1224	3/4 12 Pt Dp Skt
BD-1226	13/16 12 Pt Dp Skt
BD-1228	7/8 12 Pt Dp Skt
BD-620P	5/8 Spark Plug Skt
BD-626P	13/16 Spark Plug Skt
BA-4	1/8 Hex Bit Skt
BA-5	5/32 Hex Bit Skt
BA-6	3/16 Hex Bit Skt
BA-7	7/32 Hex Bit Skt

Number	Description
BA-8	1/4 Hex Bit Skt
BA-10	5/16 Hex Bit Skt
BA-12	3/8 Hex Bit Skt
BA-10-1P	No.1 Phil S.B. Skt
BA-10-2P	No.2 Phil S.B. Skt
BA-10-3P	No.3 Phil S.B. Skt
BA-10-2S	.040 Slot Bit Skt
BA-10-3S	.045 Slot Bit Skt
BA-10-4S	.055 Slot Bit Skt
BU-1212	3/8 Univ Skt
BU-1214	7/16 Univ Skt
BU-1216	1/2 Univ Skt
BU-1218	9/16 Univ Skt
BU-1220	5/8 Univ Skt
BU-1222	11/16 Univ Skt
BU-1224	3/4 Univ Skt
B-15	Speeder
B-20A	Sliding T Hdle
B-40A	Flex Hdle
B-52	Ratchet
B-55	Ratchet Adapter
B-70	Ratchet Spinner
B-101	1 1/2" Extension
B-108	3" Extension
B-110	6" Extension
B-115	10 1/2" Extension
B-140A	Universal Jt
BFE-8	Flexible Extension

Williams
½" Drive Tools & Accessories

Fed. Spec.: GGG-W-641E; ANSI B107.10M

Williams 82 tooth ratchets operate within a 4½° handle swing allowing rotation of fasteners in confined areas. Combine Williams ratchets with our broad selection of drive tools and accessories for the toughest industrial applications.



Catalog Number	EDP Number	Description	Length	Weight Lbs.	Kg.
S-52	50213	Ratchet – 82 tooth action	11¼	1.2	.54
S-52L	51449	Linemen's Ratchet – 82 tooth action	11¼	1.3	.59
S-53	50705	Ratchet – 82 tooth action	15	1.6	.73
BS-52	58150	Ratchet – 82 tooth action – black finish	11¼	1.2	.54
BS-71C	58152	Construction Ratchet – black finish	15	2.0	.91
S-70	50706	Ratchet Spinner	1⅝	.3	.14
S-55A	50228	Ratchet Adapter – 41 teeth	2⅝	.66	.30
S-40A	50083	Flex Hdle – flex head knurled grip	12⅛	1.4	.64
S-41A	50223	Flex Hdle – flex head knurled grip	17	1.8	.82
BS-41A	51087	Flex Hdle – black finish	17	1.8	.82
S-10A	50218	Speeder	13 7/16	1.8	.82
S-15A	50219	Speeder	18⅞	2.0	.91
S-20A	50220	Sliding T Hdle	11	.96	.44
S-60D	50455	Stud Remover – stud capacity ¼" to ¾"		.52	.24
S-102P	50360	Extension	2½	.27	.12
S-110P	50230	Extension	5½	.53	.24
S-115P	50231	Extension	9¾	1.0	.45
S-121P	50232	Extension	20	2.1	.95
S-140A	50235	Universal Joint	2¾	.34	.15
SH-130	50233	Adapter – ½" female and ¾" male	1 23/32	.31	.14
SH-131	50234	Adapter – ½" male and ¾" female	1⅞	.44	.20
SB-30	50297	Drag Link Socket – 5/32" x ⅞" blade	1½	.14	.06
SB-40	50298	Drag Link Socket – 5/32" x 1¼" blade	1 9/16	.16	.07

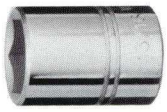
Repair Kits

Catalog Number	EDP Number	For	Description
S-52RK	51348	S-52, S-53 & BS-52	1 ea. runner unit & ring
SPA-52	59657	S-52, S-53 & BS-52	5 ea. runner unit, ring & one (1) wrench
BS-71RK	50932	BS-71 & BS-71C	1 ea. runner unit & ring
S-52LRK	51451	S-52L & S-52LC	1 ea. ratchet unit & ring
S-52W	50550	S-52, S-52L, S-52LC & S-53	1 ea. wrench for ½" drive ring
S-40RK	54061	S-40A	1 ea. drive tang, spring, hinge pin
S-41RK	54065	S-41A & BS-41A	1 ea. drive tang, spring, hinge pin

Williams
½" Drive Regular Length Sockets
6 Point

Fed. Spec.: GGG-W-641E, Type II, Class 1, Style A; ANSI B107.1, Class 1, Style A

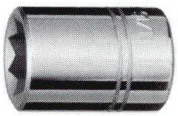
Williams sockets are precision extruded from selected steels, machined, fully heat-treated and plated for a lifetime of value and performance.



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
ST-612	50380	3/8	1½	.10	.05
ST-614	50381	7/16	1½	.11	.05
ST-616	50382	½	1½	.11	.05
ST-618	50383	9/16	1½	.13	.06
ST-619	50384	19/32	1½	.13	.06
ST-620	50385	5/8	1½	.14	.06
ST-621	50386	21/32	1½	.14	.06
ST-622	50387	11/16	1½	.17	.08
ST-624	50388	¾	1½	.19	.08
ST-625	50389	25/32	1½	.19	.08
ST-626	50390	13/16	1½	.23	.10
ST-628	50391	7/8	1⅝	.27	.12
ST-630	50392	15/16	1⅝	.29	.13
ST-632	50393	1	1¾	.38	.17
ST-634	50396	1 1/16	1¾	.47	.21
ST-636	50397	1⅛	1¾	.48	.22
ST-640	50398	1¼	2	.59	.27

Williams
½" Drive Regular Length Sockets
8 Point

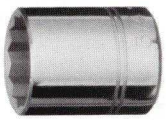
Fed. Spec.: GGG-W-641E, Type II, Class 3; ANSI B107.1, Class 2



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
ST-810	50368	5/16	1½	.14	.06
ST-812	50369	3/8	1½	.14	.06
ST-814	50370	7/16	1½	.14	.06
ST-816	50371	½	1½	.17	.08
ST-818	50372	9/16	1½	.23	.10
ST-820	50374	5/8	1⅝	.30	.14
ST-822	50375	11/16	1⅝	.32	.15
ST-824	50376	¾	1 11/16	.38	.17
ST-826	50379	13/16	1 11/16	.45	.20
ST-828	50377	7/8	1 27/32	.53	.24
ST-832	50378	1	1 31/32	.65	.30

Williams
½" Drive Regular Length Sockets
12 Point

Fed. Spec.: GGG-W-641E, Type II, Class 2, Style A; ANSI B107.1, Class 1, Style A



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
ST-1212	50247	3/8	1½	.10	.05
ST-1214	50248	7/16	1½	.11	.05
ST-1216	50249	½	1½	.11	.05
ST-1218	50250	9/16	1½	.13	.06
ST-1219	50251	19/32	1½	.13	.06
ST-1220	50252	5/8	1½	.14	.06
ST-1221	50253	21/32	1½	.14	.06
ST-1222	50254	11/16	1½	.17	.08
ST-1224	50255	¾	1½	.19	.09
ST-1225	50256	25/32	1½	.19	.09
ST-1226	50257	13/16	1½	.23	.10
ST-1228	50258	7/8	1⅝	.27	.12
ST-1230	50259	15/16	1⅝	.29	.13
ST-1231	50260	31/32	1¾	.33	.15
ST-1232	50261	1	1¾	.38	.17
ST-1234	50262	1 1/16	1¾	.47	.21
ST-1236	50263	1⅛	1¾	.48	.22
ST-1238	50264	1 3/16	1 29/32	.52	.24
ST-1240	50265	1¼	2	.59	.27
ST-1242	50340	1 5/16	2	.60	.27
ST-1244	50341	1⅜	2	.80	.36
ST-1246	50342	1 7/16	2	.90	.41
ST-1248	50343	1½	2	.98	.44

Williams
½" Drive Regular Length Socket Set
6 Point

Set Cat. No. WSS-10H 13 Sockets with TBT-12 Tray
EDP No. 94071 Weight 6.0 Lbs. – 2.7 Kg.

Number	Description
ST-612	3/8 6 Pt Skt
ST-614	7/16 6 Pt Skt
ST-616	½ 6 Pt Skt
ST-618	9/16 6 Pt Skt
ST-620	5/8 6 Pt Skt
ST-622	11/16 6 Pt Skt
ST-624	¾ 6 Pt Skt
ST-626	13/16 6 Pt Skt
ST-628	7/8 6 Pt Skt
ST-630	15/16 6 Pt Skt
ST-632	1 6 Pt Skt
ST-634	1 1/16 6 Pt Skt
ST-636	1⅛ 6 Pt Skt

Set Cat. No. WSS-10HT 13 Sockets
EDP No. 94069 Weight 4.5 Lbs. – 2.1 Kg.

Williams
½" Drive Regular Length Socket Sets
12 Point

Set Cat. No. WSS-10 13 Sockets with TBT-12 Tray
EDP No. 94076 Weight 6.0 Lbs. – 2.7 Kg.

Number	Description
ST-1212	3/8 12 Pt Skt
ST-1214	7/16 12 Pt Skt
ST-1216	1/2 12 Pt Skt
ST-1218	9/16 12 Pt Skt
ST-1220	5/8 12 Pt Skt
ST-1222	11/16 12 Pt Skt
ST-1224	3/4 12 Pt Skt
ST-1226	13/16 12 Pt Skt
ST-1228	7/8 12 Pt Skt
ST-1230	15/16 12 Pt Skt
ST-1232	1 12 Pt Skt
ST-1234	1 1/16 12 Pt Skt
ST-1236	1 1/8 12 Pt Skt

Set Cat. No. WSS-10T 13 Sockets
EDP No. 94074 Weight 4.5 Lbs. – 2.1 Kg.

Set Cat. No. WSS-12T 6 Sockets
EDP No. 94079 Weight 4.4 Lbs. – 2.0 Kg.

Number	Description
ST-1238	1 3/16 12 Pt Skt
ST-1240	1 1/4 12 Pt Skt
ST-1242	1 5/16 12 Pt Skt
ST-1244	1 3/8 12 Pt Skt
ST-1246	1 7/16 12 Pt Skt
ST-1248	1 1/2 12 Pt Skt

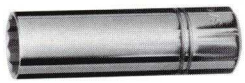
Williams
½" Drive Long Length Sockets
6 Point

Fed. Spec.: GGG-W-641E, Type II, Class 1, Style B; ANSI B107.1, Class 1, Style B

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Weight Kg.
SD-616	51145	1/2	3 1/4	.26	.12
SD-618	51146	9/16	3 1/4	.26	.12
SD-620	51147	5/8	3 1/4	.26	.12
SD-622	51148	11/16	3 1/4	.26	.12
SD-624	51149	3/4	3 1/4	.37	.17
SD-626	50719	13/16	3 1/4	.37	.17
SD-628	51150	7/8	3 1/4	.45	.20
SD-630	51151	15/16	3 1/4	.51	.23
SD-632	51152	1	3 1/4	.52	.24
SD-634	51153	1 1/16	3 1/4	.63	.29
SD-636	51154	1 1/8	3 1/4	.74	.34

Williams
½" Drive Long Length Sockets
12 Point

Fed. Spec.: GGG-W-641E, Type II, Class 2, Style B; ANSI B107.1, Class 1, Style B



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Weight Kg.
SD-1216	50269	1/2	3 1/4	.26	.12
SD-1218	50270	9/16	3 1/4	.26	.12
SD-1220	50272	5/8	3 1/4	.26	.12
SD-1222	50273	11/16	3 1/4	.26	.12
SD-1224	50274	3/4	3 1/4	.37	.17
SD-1225	50394	25/32	3 1/4	.37	.17
SD-1226	50275*	13/16	3 1/4	.37	.17
SD-1228	50276	7/8	3 1/4	.45	.20
SD-1228T	50277†	7/8	3 1/4	.29	.13
SD-1230	50278	15/16	3 1/4	.51	.23
SD-1232	50279	1	3 1/4	.52	.24
SD-1234	50280	1 1/16	3 1/4	.63	.29
SD-1236	50281	1 1/8	3 1/4	.74	.34

*Services 14mm spark plugs.
†Extra thin wall provides clearance. Low torque applications only.

Williams
½" Drive Long Length Socket Set
6 Point

Set Cat. No. WSS-17H 11 Long Length Sockets with TBT-11 Tray
EDP No. 94084 Weight 6.1 Lbs. – 2.8 Kg.

Number	Description
SD-616	1/2 6 Pt Skt
SD-618	9/16 6 Pt Skt
SD-620	5/8 6 Pt Skt
SD-622	11/16 6 Pt Skt
SD-624	3/4 6 Pt Skt
SD-626	13/16 6 Pt Skt
SD-628	7/8 6 Pt Skt
SD-630	15/16 6 Pt Skt
SD-632	1 6 Pt Skt
SD-634	1 1/16 6 Pt Skt
SD-636	1 1/8 6 Pt Skt

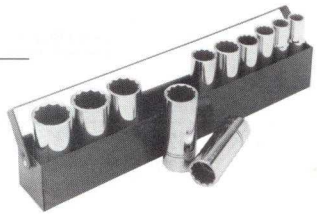
Set Cat. No. WSSM-17HT 11 Long Length Sockets
EDP No. 94082 Weight 4.6 Lbs. – 2.1 Kg.

Williams

½" Drive Long Length Socket Set

12 Point

Set Cat No. WSS-18 11 Long Length Sockets with TBT-11 Tray
EDP No. 94089 Weight 6.1 Lbs. – 2.8 Kg.



Number	Description
SD-1216	½ 12 Pt Skt
SD-1218	9/16 12 Pt Skt
SD-1220	5/8 12 Pt Skt
SD-1222	11/16 12 Pt Skt
SD-1224	3/4 12 Pt Skt
SD-1226	13/16 12 Pt Skt
SD-1228	7/8 12 Pt Skt
SD-1230	15/16 12 Pt Skt
SD-1232	1 12 Pt Skt
SD-1234	1 1/16 12 Pt Skt
SD-1236	1 1/8 12 Pt Skt

Set Cat. No. WSS-18T 11 Long Length Sockets
EDP No. 94087 Weight 4.6 Lbs. – 2.1 Kg.

Williams

½" Drive Universal Sockets and Set

12 Point

Fed. Spec.: GGG-W-641E, Type II, Class 4; ANSI B107.1, Class 3

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
SU-1216	50282	½	2 23/64	.28	.13
SU-1218	50283	9/16	2 7/16	.29	.13
SU-1220	50284	5/8	2 15/32	.30	.14
SU-1222	50285	11/16	2 9/16	.31	.14
SU-1224	50286	3/4	2 5/8	.32	.15

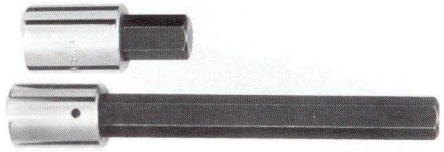
Set Cat. No. WSS-11T 5 Universal Sockets
EDP No. 94092 Weight 1.5 Lbs. – .7 Kg.

Number	Description
SU-1216	½ 12 Pt Univ Skt
SU-1218	9/16 12 Pt Univ Skt
SU-1220	5/8 12 Pt Univ Skt
SU-1222	11/16 12 Pt Univ Skt
SU-1224	3/4 12 Pt Unvi Skt

Williams

½" Drive Hex Bit Sockets

Williams ½" drive hex bit sockets provide a wide range of sizes from ½" to 5/8" for heavy duty industrial applications. Hex sockets are chrome plated; bits have black finish.



Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
Short Hex Bits					
SA-8	51039	1/4	2 1/4	.23	.10
SA-10	51040	5/16	2 1/4	.23	.10
SA-12	51041	3/8	2 3/8	.26	.12
SA-16	51042	1/2	2 3/8	.30	.14
SA-18	51043	9/16	2 1/2	.41	.19
SA-20	51044	5/8	2 1/2	.43	.20
Long Hex Bits					
SA-8L	51060	1/4	5	.28	.13
SA-10L	51061	5/16	5	.29	.13
SA-12L	51062	3/8	6	.39	.18
SA-16L	51063	1/2	6	.50	.23
SA-18L	51064	9/16	7	.75	.34
SA-20L	51065	5/8	7	.83	.38

Replacement Bits for Hex Bit Sockets

Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
Short Hex Bits					
A-8	51005	1/4	1 1/4	.02	.009
A-10	51006	5/16	1 1/4	.03	.014
A-12	51007	3/8	1 3/8	.05	.023
A-16	51008	1/2	1 3/8	.09	.041
A-18	51009	9/16	1 1/2	.12	.05
A-20	51010	5/8	1 1/2	.14	.06
Long Hex Bits					
A-8L	51018	1/4	4	.06	.027
A-10L	51019	5/16	4	.10	.05
A-12L	51020	3/8	5	.18	.08
A-16L	51021	1/2	5	.31	.14
A-18L	51022	9/16	6	.46	.21
A-20L	51023	5/8	6	.58	.26

Williams

½" Drive Hex Bit Socket Set

Set Cat. No. WSS-15 6 Short Hex Bit Sockets with TBT-13 Tray
EDP No. 94102 Weight 2.4 Lbs. – 1.1 Kg.

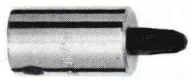
Number	Description
SA-8	1/4 Hex Bit Skt
SA-10	5/16 Hex Bit Skt
SA-12	3/8 Hex Bit Skt
SA-16	1/2 Hex Bit Skt
SA-18	9/16 Hex Bit Skt
SA-20	5/8 Hex Bit Skt

Set Cat. No. WSS-15T 6 Short Hex Bit Sockets
EDP No. 94100 Weight 1.9 Lbs. – .84 Kg.

Williams
½" Drive Slotted Screw Bit Sockets

Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
SA-10-1S	51066	3/16 x .032	2½	.23	.10
SA-10-2S	51067	7/32 x .040	2½	.23	.10
SA-10-3S	51068	9/32 x .045	2½	.23	.10
SA-10-4S	51069	5/16 x .055	2½	.23	.10

Williams
½" Drive Phillips Screw Bit Sockets



Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
SA-10-1P	51070	No. 1	2¼	.23	.10
SA-10-2P	51071	No. 2	2¼	.23	.10
SA-10-3P	51072	No. 3	2¼	.23	.10
SA-10-4P	51073	No. 4	2¼	.23	.10

Replacement Bits for Slotted Screw Bit Sockets

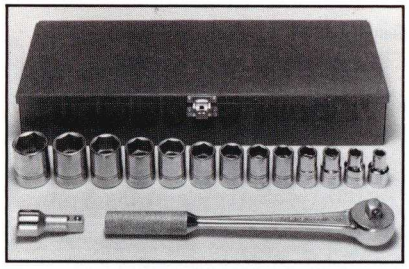
Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
ASB-1	51047	3/16 x .032	1½	.03	.01
ASB-2	51048	7/32 x .040	1½	.03	.01
ASB-3	51049	9/32 x .045	1½	.03	.01
ASB-4	51050	5/16 x .055	1½	.03	.01

Replacement Bits for Phillips Screw Bit Sockets

Catalog Number	EDP Number	Bit Size	Length	Weight Lbs.	Kg.
APB-1	51051	No. 1	1¼	.03	.01
APB-2	51052	No. 2	1¼	.03	.01
APB-3	51053	No. 3	1¼	.03	.01
APB-4	51054	No. 4	1¼	.03	.01

Williams
½" Drive Socket and Drive Tool Sets

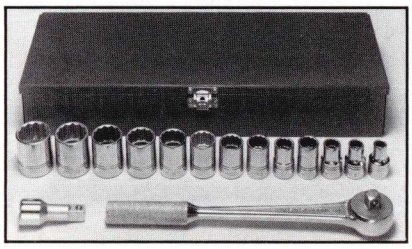
Set Cat. No. WSS-1 15 Tools in TB-33 Box
EDP No. 94149 Weight 8.3 Lbs. – 3.8 Kg.



Number	Description	Number	Description	Number	Description
ST-1212	3/8 12 Pt Skt	ST-1222	11/16 12 Pt Skt	ST-1232	1 12 Pt Skt
ST-1214	7/16 12 Pt Skt	ST-1224	3/4 12 Pt Skt	ST-1234	1 1/16 12 Pt Skt
ST-1216	1/2 12 Pt Skt	ST-1226	13/16 12 Pt Skt	ST-1236	1 1/8 12 Pt Skt
ST-1218	9/16 12 Pt Skt	ST-1228	7/8 12 Pt Skt	S-52	Ratchet
ST-1220	5/8 12 Pt Skt	ST-1230	15/16 12 Pt Skt	S-102P	2½" Extension

Set Cat. No. WSS-1T 15 Tools EDP No. 94147 Weight 6.0 Lbs. – 2.7 Kg.

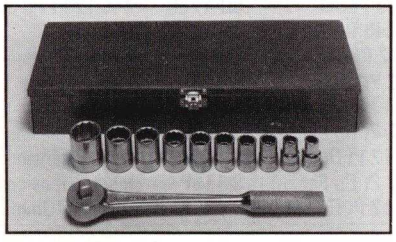
Set Cat. No. WSS-1H 15 Tools In TB-33 Box
EDP No. 94140 Weight 8.3 Lbs. – 3.8 Kg.



Number	Description	Number	Description	Number	Description
ST-612	3/8 6 Pt Skt	ST-622	11/16 6 Pt Skt	ST-632	1 6 Pt Skt
ST-614	7/16 6 Pt Skt	ST-624	3/4 6 Pt Skt	ST-634	1 1/16 6 Pt Skt
ST-616	1/2 6 Pt Skt	ST-626	13/16 6 Pt Skt	ST-636	1 1/8 6 Pt Skt
ST-618	9/16 6 Pt Skt	ST-628	7/8 6 Pt Skt	S-52	Ratchet
ST-620	5/8 6 Pt Skt	ST-630	15/16 6 Pt Skt	S-102P	2½" Extension

Set Cat. No. WSS-1HT 15 Tools EDP No. 94138 Weight 6.0 Lbs. – 2.7 Kg.

Set Cat. No. WSS-3 11 Tools in TB-33 Box
EDP No. 95064 Weight 5.4 Lbs. – 2.4 Kg.



Number	Description	Number	Description	Number	Description
ST-1214	7/16 12 Pt Skt	ST-1222	11/16 12 Pt Skt	ST-1230	15/16 12 Pt Skt
ST-1216	1/2 12 Pt Skt	ST-1224	3/4 12 Pt Skt	ST-1236	1 1/8 12 Pt Skt
ST-1218	9/16 12 Pt Skt	ST-1226	13/16 12 Pt Skt	S-52	Ratchet
ST-1220	5/8 12 Pt Skt	ST-1228	7/8 12 Pt Skt		

Set Cat. No. WSS-3T 11 Tools EDP No. 95065 Weight 3.5 Lbs. – 1.6 Kg.

Williams

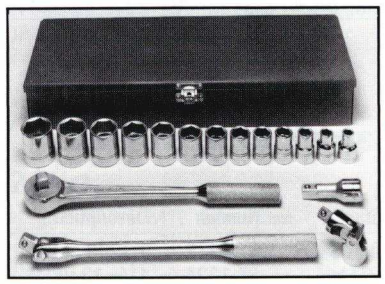
½" Drive Socket and Drive Tool Sets

Set Cat. No. WSS-4 17 Tools in TB-31 Box
EDP No. 95066 Weight 8.4 Lbs. – 3.8 Kg.

Number	Description	Number	Description	Number	Description
ST-1212	3/8 12 Pt Skt	ST-1224	3/4 12 Pt Skt	ST-1236	1 1/8 12 Pt Skt
ST-1214	7/16 12 Pt Skt	ST-1226	13/16 12 Pt Skt	ST-1240	1 1/4 12 Pt Skt
ST-1216	1/2 12 Pt Skt	ST-1228	7/8 12 Pt Skt	S-52	Ratchet
ST-1218	9/16 12 Pt Skt	ST-1230	15/16 12 Pt Skt	S-102P	2 1/2" Extension
ST-1220	5/8 12 Pt Skt	ST-1232	1 12 Pt Skt	S-115P	9 3/4" Extension
ST-1222	11/16 12 Pt Skt	ST-1234	1 1/16 12 Pt Skt		

Set Cat. No. WSS-4T 17 Tools EDP No. 95067 Weight 6.4 Lbs. – 2.9 Kg.

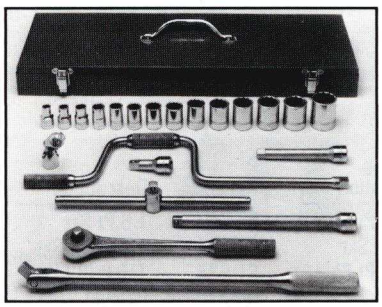
Set Cat. No. WSS-9H 18 Tools in TB-33 Box
EDP No. 94155 Weight 10.6 Lbs. – 4.8 Kg.



Number	Description	Number	Description	Number	Description
ST-612	3/8 6 Pt Skt	ST-624	3/4 6 Pt Skt	ST-636	1 1/8 6 Pt Skt
ST-614	7/16 6 Pt Skt	ST-626	13/16 6 Pt Skt	S-52	Ratchet
ST-616	1/2 6 Pt Skt	ST-628	7/8 6 Pt Skt	S-102P	2 1/2" Extension
ST-618	9/16 6 Pt Skt	ST-630	15/16 6 Pt Skt	S-110P	5 1/2" Extension
ST-620	5/8 6 Pt Skt	ST-632	1 6 Pt Skt	S-40A	Flex Hdle
ST-622	11/16 6 Pt Skt	ST-634	1 1/16 6 Pt Skt	S-140A	Universal Joint

Set Cat. No. WSS-9HT 18 Tools EDP No. 94152 Weight 8.3 Lbs. – 3.8 Kg.

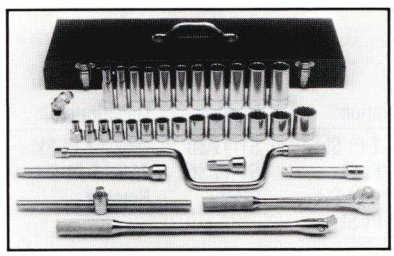
Set Cat. No. WSS-5 22 Tools In TB-7 Box
EDP No. 95068 Weight 18.0 Lbs. – 8.2 Kg.



Number	Description	Number	Description	Number	Description
ST-1212	3/8 12 Pt Skt	ST-1228	7/8 12 Pt Skt	S-41A	Flex Hdle
ST-1214	7/16 12 Pt Skt	ST-1230	15/16 12 Pt Skt	S-52	Ratchet
ST-1216	1/2 12 Pt Skt	ST-1232	1 12 Pt Skt	S-102P	2 1/2" Extension
ST-1218	9/16 12 Pt Skt	ST-1234	1 1/16 12 Pt Skt	S-110P	5 1/2" Extension
ST-1220	5/8 12 Pt Skt	ST-1236	1 1/8 12 Pt Skt	S-115P	9 3/4" Extension
ST-1222	11/16 12 Pt Skt	ST-1240	1 1/4 12 Pt Skt	S-140A	Universal Joint
ST-1224	3/4 12 Pt Skt	S-15A	Speeder		
ST-1226	13/16 12 Pt Skt	S-20A	Sliding T Hdle		

Set Cat. No. WSS-5T 22 Tools EDP No. 95069 Weight 12.6 Lbs. – 5.5 Kg.

Set Cat. No. WSS-6 33 Tools in TB-7 Box
EDP No. 95070 Weight 24.5 Lbs. – 11.1 Kg.

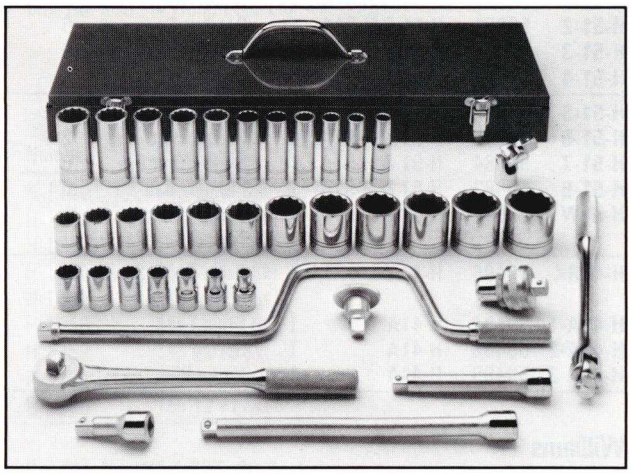


Number	Description	Number	Description	Number	Description
ST-1212	3/8 12 Pt Skt	ST-1234	1 1/16 12 Pt Skt	SD-1232	1 12 Pt Dp Skt
ST-1214	7/16 12 Pt Skt	ST-1236	1 1/8 12 Pt Skt	SD-1234	1 1/16 12 Pt Dp Skt
ST-1216	1/2 12 Pt Skt	ST-1240	1 1/4 12 Pt Skt	SD-1236	1 1/8 12 Pt Dp Skt
ST-1218	9/16 12 Pt Skt	SD-1216	1/2 12 Pt Dp Skt	S-15A	Speeder
ST-1220	5/8 12 Pt Skt	SD-1218	9/16 12 Pt Dp Skt	S-20A	Sliding T Hdle
ST-1222	11/16 12 Pt Skt	SD-1220	5/8 12 Pt Dp Skt	S-41A	Flex Hdle
ST-1224	3/4 12 Pt Skt	SD-1222	11/16 12 Pt Dp Skt	S-52	Ratchet
ST-1226	13/16 12 Pt Skt	SD-1224	3/4 12 Pt Dp Skt	S-102P	2 1/2" Extension
ST-1228	7/8 12 Pt Skt	SD-1226	13/16 12 Pt Dp Skt	S-110P	5 1/2" Extension
ST-1230	15/16 12 Pt Skt	SD-1228	7/8 12 Pt Dp Skt	S-115P	9 3/4" Extension
ST-1232	1 12 Pt Skt	SD-1230	15/16 12 Pt Dp Skt	S-140A	Universal Joint

Set Cat. No. WSS-6T 33 Tools EDP No. 95071 Weight 18.0 Lbs. – 8.2 Kg.

Williams
½" Drive Socket and Drive Tool Sets

Set Cat. No. WSS-8 39 Tools in TB-7 Box
EDP No. 94202 Weight 24.8 Lbs. – 11.26 Kg.

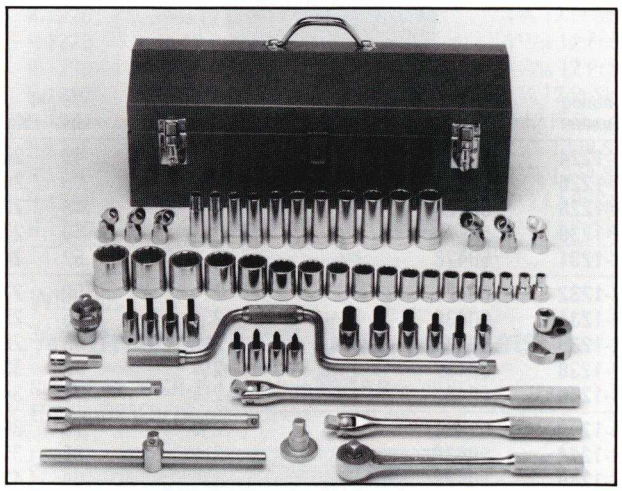


Number	Description
ST-1212	3/8 12 Pt Skt
ST-1214	7/16 12 Pt Skt
ST-1216	1/2 12 Pt Skt
ST-1218	9/16 12 Pt Skt
ST-1220	5/8 12 Pt Skt
ST-1222	11/16 12 Pt Skt
ST-1224	3/4 12 Pt Skt
ST-1226	13/16 12 Pt Skt
ST-1228	7/8 12 Pt Skt
ST-1230	15/16 12 Pt Skt
ST-1232	1 12 Pt Skt
ST-1234	1 1/16 12 Pt Skt
ST-1236	1 1/8 12 Pt Skt
ST-1238	1 3/16 12 Pt Skt
ST-1240	1 1/4 12 Pt Skt
ST-1242	1 5/16 12 Pt Skt
ST-1244	1 3/8 12 Pt Skt
ST-1246	1 7/16 12 Pt Skt
ST-1248	1 1/2 12 Pt Skt
SD-1216	1/2 12 Pt Dp Skt

Number	Description
SD-1218	9/16 12 Pt Dp Skt
SD-1220	5/8 12 Pt Dp Skt
SD-1222	11/16 12 Pt Dp Skt
SD-1224	3/4 12 Pt Dp Skt
SD-1226	13/16 12 Pt Dp Skt
SD-1228	7/8 12 Pt Dp Skt
SD-1230	15/16 12 Pt Dp Skt
SD-1232	1 12 Pt Dp Skt
SD-1234	1 1/16 12 Pt Dp Skt
SD-1236	1 1/8 12 Pt Dp Skt
S-55A	Adapter
S-102P	2 1/2" Extension
S-110P	5 1/2" Extension
S-115P	9 3/4" Extension
S-15A	Speeder
S-70	Ratchet Spinner
S-41A	Flex Hdle
S-140A	Universal Joint

Set Cat. No. WSS-8T 39Tools
EDP No. 94200 Weight 18.4 Lbs. – 8.2 Kg.

Set Cat. No. WSS-7 61 Tools in TB-8T Box
EDP No. 95017 Weight 42.87 Lbs. – 19.46 Kg.



Number	Description
ST-1212	3/8 12 Pt Skt
ST-1214	7/16 12 Pt Skt
ST-1216	1/2 12 Pt Skt
ST-1218	9/16 12 Pt Skt
ST-1220	5/8 12 Pt Skt
ST-1222	11/16 12 Pt Skt
ST-1224	3/4 12 Pt Skt
ST-1226	13/16 12 Pt Skt
ST-1228	7/8 12 Pt Skt
ST-1230	15/16 12 Pt Skt
ST-1232	1 12 Pt Skt
ST-1234	1 1/16 12 Pt Skt
ST-1236	1 1/8 12 Pt Skt
ST-1238	1 3/16 12 Pt Skt
ST-1240	1 1/4 12 Pt Skt
ST-1242	1 5/16 12 Pt Skt
ST-1244	1 3/8 12 Pt Skt
ST-1246	1 7/16 12 Pt Skt
ST-1248	1 1/2 12 Pt Skt
SD-1216	1/2 12 Pt Dp Skt
SD-1218	9/16 12 Pt Dp Skt
SD-1220	5/8 12 Pt Dp Skt
SD-1222	11/16 12 Pt Dp Skt
SD-1224	3/4 12 Pt Dp Skt
SD-1226	13/16 12 Pt Dp Skt
SD-1228	7/8 12 Pt Dp Skt
SD-1230	15/16 12 Pt Dp Skt
SD-1232	1 12 Pt Dp Skt
SD-1234	1 1/16 12 Pt Dp Skt
SD-1236	1 1/8 12 Pt Dp Skt
SU-1216	1/2 12 Pt Univ Skt

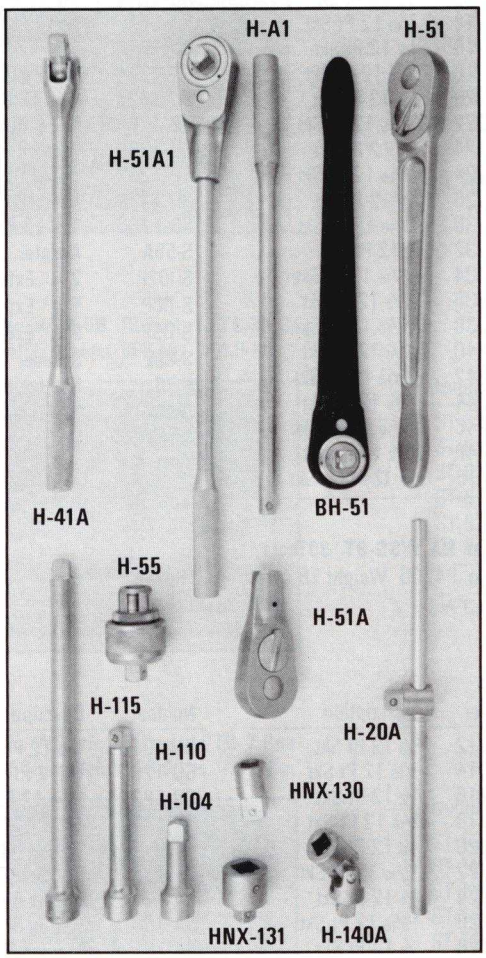
Number	Description
SU-1218	9/16 12 Pt Univ Skt
SU-1220	5/8 12 Pt Univ Skt
SU-1222	11/16 12 Pt Univ Skt
SU-1224	3/4 12 Pt Univ Skt
SA-8	1/4 Hex Bit Skt
SA-10	5/16 Hex Bit Skt
SA-12	3/8 Hex Bit Skt
SA-16	1/2 Hex Bit Skt
SA-18	9/16 Hex Bit Skt
SA-20	5/8 Hex Bit Skt
SA-10-1S	.032 Slot Bit Skt
SA-10-2S	.040 Slot Bit Skt
SA-10-3S	.045 Slot Bit Skt
SA-10-4S	.055 Slot Bit Skt
SA-10-1P	No. 1 Phil S.B. Skt
SA-10-2P	No. 2 Phil S.B. Skt
SA-10-3P	No. 3 Phil S.B. Skt
SA-10-4P	No. 4 Phil S.B. Skt
S-52	Ratchet
S-102P	2 1/2" Extension
S-110P	2 1/2" Extension
S-115P	9 3/4" Extension
S-15A	Speeder
S-70	Ratchet Spinner
S-55A	Ratchet Adapter
S-41A	Flex Hdle
S-140A	Universal Joint
S-20A	Sliding T Hdle
S-40A	Flex Hdle
S-60D	Stud Remover

Set Cat. No. WSS-7T 61 Tools
EDP No. 95015 Weight 28.3 Lbs. – 12.8 Kg.

Williams
¾" Drive Tools & Accessories

Fed. Spec.: GGG-W-641E; ANSI B107.10M

Williams heavy duty drive tools are for the most demanding industrial applications.



Catalog Number	EDP Number	Description	Length	Weight Lbs.	Kg.
H-51	50416	Ratchet – 24 tooth action	19	5.4	2.4
H-51A	50495	Ratchet Head – 24 tooth action	6¼	3.5	1.6
H-A1	50409	Handle – with knurled grip for H-51A Head	20	4.3	2.0
H-51A1	50493	Ratchet Head – with knurled handle	24½	7.8	3.5
BH-51	51097	Ratchet – black finish	19	5.1	2.3
H-55	51290	Ratchet Adapter – 41 tooth	3⅞	3.0	1.4
H-41A	50413	Flex Hdle – flex head, knurled grip	20	4.1	1.9
H-20A	50412	Sliding T Hdle	17½	2.7	1.2
H-104	50417	Extension	4	.88	.40
H-110	50418	Extension	8	1.5	.68
H-115	50419	Extension	15½	2.8	1.3
HNX-130	50424	Adapter – ¾" female and 1" male	2⅜	1.7	.77
HNX-131	50404	Adapter – ¾" male and 1" female	2⅝16	1.1	.50
H-140A	50406	Universal Joint – range approx. 140°	4⅞32	1.2	.54

Repair Kits & Parts

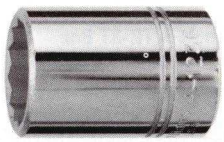
Catalog Number	EDP Number	For	Qty.	HPA-51 Description	Kit Contains
HPA-51	59658	H-51 & H-51A	1	See Next Column	
H-51-1	50652	H-51 & H-51A	1	Gland Ring	2
H-51-2	50651	H-51 & H-51A	1	Ratchet Gear	6
H-51-3	50653	H-51 & H-51A	1	Pawl	6
H-51-4	50657	H-51 & H-51A	1	Bearing Pin	6
H-51-5	50654	H-51 & H-51A	1	Plunger Spring	6
H-51-6	56445	H-51 & H-51A	1	Shifter Bolt	2
H-51-7	50684	H-51 & H-51A	1	Shifter Bolt Pin	6
H-51-8	50683	H-51 & H-51A	1	Plunger Ball	6
H-51W	50543	H-51 & H-51A	1	Spanner Wrench For ¾" Dr. Gland	1
H-41RK	50486	H-41A	1	Drive Tang, Spring & Hinge Pin	
H-41A-1	50487	H-41A	1	Drive Tang	
H-41A-2	50488	H-41A	1	Spring	
H-41A-3	50489	H-41A	1	Hinge Pin	

Williams
¾" Drive Regular Length Sockets

12 Point

Fed. Spec.: GGG-W-641E, Type II, Class 2, Style A; ANSI B107.1, Class 1, Style A

Williams offers a wide range of 12 pt. openings in the ¾" drive socket line.



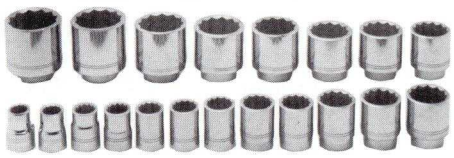
Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
H-1224	50461	¾	1¾	.43	.20
H-1226	50844	13⁄16	1¾	.45	.20
H-1228	50426	⅞	2	.49	.22
H-1230	50427	15⁄16	2	.50	.23
H-1231	50428	31⁄32	2	.52	.24
H-1232	50429	1	2	.50	.23
H-1234	50430	1 1⁄16	2	.55	.25
H-1236	50431	1⅛	2¼	.63	.29
H-1238	50432	1 3⁄16	2¼	.73	.33
H-1240	50433	1¼	2¼	.75	.34
H-1242	50434	1 5⁄16	2¼	.79	.36
H-1244	50435	1⅜	2¼	.85	.39
H-1246	50436	1 7⁄16	2½	.94	43
H-1248	50437	1½	2½	1.1	.50
H-1250	50408	1 9⁄16	2½	1.1	.50
H-1252	50438	1⅝	2½	1.2	.54
H-1254	50439	1 11⁄16	2¾	1.4	.64
H-1256	50440	1¾	2¾	1.4	.64
H-1258	50441	1 13⁄16	2¾	1.8	.82
H-1260	50442	1⅞	2¾	1.9	.86
H-1264	50443	2	3	2.2	1.0
H-1266	50444	2 1⁄16	3	2.5	1.1
H-1268	50445	2⅛	3¼	2.6	1.2
H-1270	50446	2 3⁄16	3¼	2.8	1.3
H-1272	50447	2¼	3½	3.0	1.4
H-1274	50845	2 5⁄16	3½	3.1	1.4
H-1276	50846	2⅜	3½	3.3	1.5

Williams
3/4" Drive Regular Length Socket Sets
12 Point

Set Cat. No. WSH-10T 9 Sockets
EDP No. 59331 Weight 9.5 Lbs. – 4.3 Kg.

Number	Description
H-1240	1¼ 12 Pt Skt
H-1242	1⁵⁄₁₆ 12 Pt Skt
H-1244	1⅜ 12 Pt Skt
H-1246	1⁷⁄₁₆ 12 Pt Skt
H-1248	1½ 12 Pt Skt
H-1250	1⁹⁄₁₆ 12 Pt Skt
H-1252	1⅝ 12 Pt Skt
H-1254	1¹¹⁄₁₆ 12 Pt Skt
H-1256	1¾ 12 Pt Skt

Set Cat. No. WSH-20T 20 Sockets
EDP No. 59349 Weight 29.5 Lbs. – 13.4 Kg.



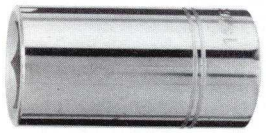
Number	Description
H-1224	¾ 12 Pt Skt
H-1226	1³⁄₁₆ 12 Pt Skt
H-1228	⅞ 12 Pt Skt
H-1230	1⁵⁄₁₆ 12 Pt Skt
H-1232	1 12 Pt Skt
H-1234	1¹⁄₁₆ 12 Pt Skt
H-1236	1⅛ 12 Pt Skt
H-1240	1¼ 12 Pt Skt
H-1242	1⁵⁄₁₆ 12 Pt Skt
H-1246	1⁷⁄₁₆ 12 Pt Skt

Number	Description
H-1248	1½ 12 Pt Skt
H-1252	1⅝ 12 Pt Skt
H-1254	1¹¹⁄₁₆ 12 Pt Skt
H-1258	1¹³⁄₁₆ 12 Pt Skt
H-1260	1⅞ 12 Pt Skt
H-1264	2 12 Pt Skt
H-1266	2¹⁄₁₆ 12 Pt Skt
H-1270	2³⁄₁₆ 12 Pt Skt
H-1272	2¼ 12 Pt Skt
H-1276	2⅜ 12 Pt Skt

Williams
3/4" Drive Long Length Sockets and Set
6 Point

ANSI B107.1, Class 1, Style B

Designed for heavy service. 6 Point openings are essential for use on worn and rounded fasteners and in severe industrial applications.



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Weight Kg.
HD-628	51291	⅞	3½	.80	.36
HD-630	51292	⁵⁄₁₆	3½	.81	.37
HD-632	51293	1	3½	.83	.38
HD-634	51294	1¹⁄₁₆	3½	.98	.44
HD-636	51295	1⅛	3½	1.1	.50
HD-640	51296	1¼	3½	1.3	.59
HD-642	51297	1⁵⁄₁₆	3½	1.4	.64
HD-644	51298	1⅜	3½	1.5	.68
HD-646	51299	1⁷⁄₁₆	3½	1.6	.73
HD-648	51300	1½	3½	1.8	.82
HD-652	51301	1⅝	3½	2.0	.91

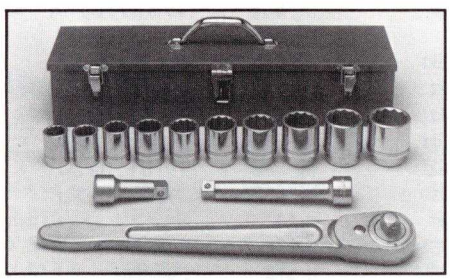
Set Cat. No. WSH-11HT 11 Long Length Sockets
EDP No. 59321 Weight 14.1 Lbs. – 6.4 Kg.

Number	Description
HD-628	⅞ 6 Pt Dp Skt
HD-630	1⁵⁄₁₆ 6 Pt Dp Skt
HD-632	1 6 Pt Dp Skt
HD-634	1¹⁄₁₆ 6 Pt Dp Skt
HD-636	1⅛ 6 Pt Dp Skt
HD-640	1¼ 6 Pt Dp Skt

Number	Description
HD-642	1⁵⁄₁₆ 6 Pt Dp Skt
HD-644	1⅜ 6 Pt Dp Skt
HD-646	1⁷⁄₁₆ 6 Pt Dp Skt
HD-648	1½ 6 Pt Dp Skt
HD-652	1⅝ 6 Pt Dp Skt

Williams
3/4" Drive Socket & Drive Tool Sets

Set Cat. No. WSH-2 13 Tools in TB-10 Box
EDP No. 59350 Weight 26.0 Lbs. – 11.8 Kg.



Number	Description
H-1232	1 12 Pt Skt
H-1234	1¹⁄₁₆ 12 Pt Skt
H-1236	1⅛ 12 Pt Skt
H-1240	1¼ 12 Pt Skt
H-1242	1⁵⁄₁₆ 12 Pt Skt

Number	Description
H-1246	1⁷⁄₁₆ 12 Pt Skt
H-1248	1½ 12 Pt Skt
H-1252	1⅝ 12 Pt Skt
H-1254	1¹¹⁄₁₆ 12 Pt Skt
H-1258	1¹³⁄₁₆ 12 Pt Skt

Number	Description
H-51	Ratchet
H-104	4" Extension
H-110	8" Extension

Set Cat. No. WSH-2T 13 Tools
EDP No. 59351 Weight 17.3 Lbs. – 7.9 Kg.

Williams
¾" Drive Socket & Drive Tool Sets

Set Cat. No. WSH-3 18 Tools in TB-9T Box
EDP No. 59314 Weight 45.3 Lbs. – 15.6 Kg.

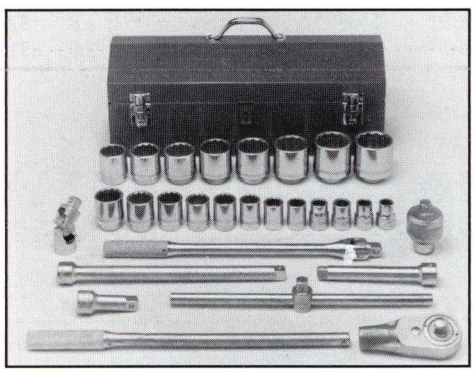
Number	Description
H-1232	1 12 Pt Skt
H-1234	1 1/16 12 Pt Skt
H-1236	1 1/8 12 Pt Skt
H-1240	1 1/4 12 Pt Skt
H-1242	1 5/16 12 Pt Skt
H-1246	1 7/16 12 Pt Skt

Number	Description
H-1248	1 1/2 12 Pt Skt
H-1252	1 5/8 12 Pt Skt
H-1254	1 11/16 12 Pt Skt
H-1258	1 13/16 12 Pt Skt
H-1260	1 7/8 12 Pt Skt
H-1264	2 12 Pt Skt

Number	Description
H-41A	Flex Hdle
H-51	Ratchet
H-104	4" Extension
H-110	8" Extension
H-115	15 1/2" Extension
H-140A	Universal Joint

Set Cat. No. WSH-3T 18 Tools
EDP No. 59315 Weight 30.7 Lbs. – 13.7 Kg.

Set Cat. No. WSH-4 29 Tools in TB-9T Box
EDP No. 59352 Weight 65.8 Lbs. – 29.9 Kg.



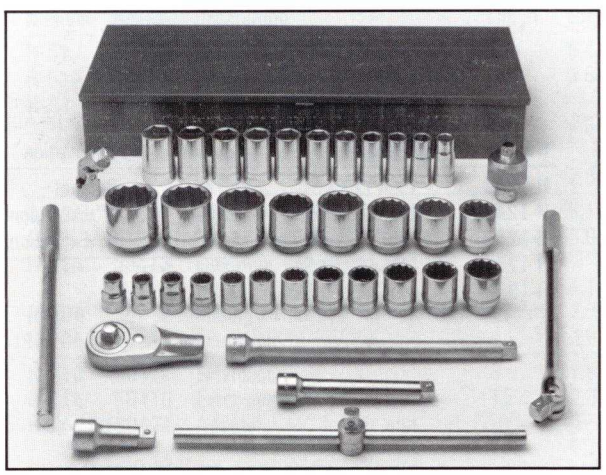
Number	Description
H-1224	¾ 12 Pt Skt
H-1226	13/16 12 Pt Skt
H-1228	⅞ 12 Pt Skt
H-1230	15/16 12 Pt Skt
H-1232	1 12 Pt Skt
H-1234	1 1/16 12 Pt Skt
H-1236	1 1/8 12 Pt Skt
H-1240	1 1/4 12 Pt Skt
H-1242	1 5/16 12 Pt Skt
H-1246	1 7/16 12 Pt Skt

Number	Description
H-1248	1 1/2 12 Pt Skt
H-1252	1 5/8 12 Pt Skt
H-1254	1 11/16 12 Pt Skt
H-1258	1 13/16 12 Pt Skt
H-1260	1 7/8 12 Pt Skt
H-1264	2 12 Pt Skt
H-1266	2 1/16 12 Pt Skt
H-1270	2 3/16 12 Pt Skt
H-1272	2 1/4 12 Pt Skt
H-1276	2 3/8 12 Pt Skt

Number	Description
H-A1	Handle
H-41A	Flex Hdle
H-51A	Ratchet
H-55	Ratchet Adapter
H-104	4" Extension
H-110	8" Extension
H-115	15 1/2" Extension
H-140A	Universal Joint
H-20A	Sliding T Hdle

Set Cat. No. WSH-4T 29 Tools
EDP No. 59353 Weight 51.2 Lbs. – 23.2 Kg.

Set Cat. No. WSH-5 40 Tools in TB-12 Box
EDP No. 59354 Weight 89.0 Lbs. – 40.4 Kg.



Number	Description
H-1224	¾ 12 Pt Skt
H-1226	13/16 12 Pt Skt
H-1228	⅞ 12 Pt Skt
H-1230	15/16 12 Pt Skt
H-1232	1 12 Pt Skt
H-1234	1 1/16 12 Pt Skt
H-1236	1 1/8 12 Pt Skt
H-1240	1 1/4 12 Pt Skt
H-1242	1 5/16 12 Pt Skt
H-1246	1 7/16 12 Pt Skt
H-1248	1 1/2 12 Pt Skt
H-1252	1 5/8 12 Pt Skt
H-1254	1 11/16 12 Pt Skt
H-1258	1 13/16 12 Pt Skt
H-1260	1 7/8 12 Pt Skt
H-1264	2 12 Pt Skt
H-1266	2 1/16 12 Pt Skt
H-1270	2 3/16 12 Pt Skt
H-1272	2 1/4 12 Pt Skt
H-1276	2 3/8 12 Pt Skt

Number	Description
HD-628	⅞ 6 Pt Dp Skt
HD-630	15/16 12 Pt Dp Skt
HD-632	1 6 Pt Dp Skt
HD-634	1 1/16 6 Pt Dp Skt
HD-636	1 1/8 6 Pt Dp Skt
HD-640	1 1/4 6 Pt Dp Skt
HD-642	1 5/16 6 Pt Dp Skt
HD-644	1 3/8 6 Pt Dp Skt
HD-646	1 7/16 6 Pt Dp Skt
HD-648	1 1/2 6 Pt Dp Skt
HD-652	1 5/8 6 Pt Dp Skt
H-A1	Handle
H-20A	Sliding T Hdle
H-41A	Flex Hdle
H-51A	Ratchet
H-55	Ratchet Adapter
H-104	4" Extension
H-110	8" Extension
H-115	15 1/2" Extension
H-140A	Universal Joint

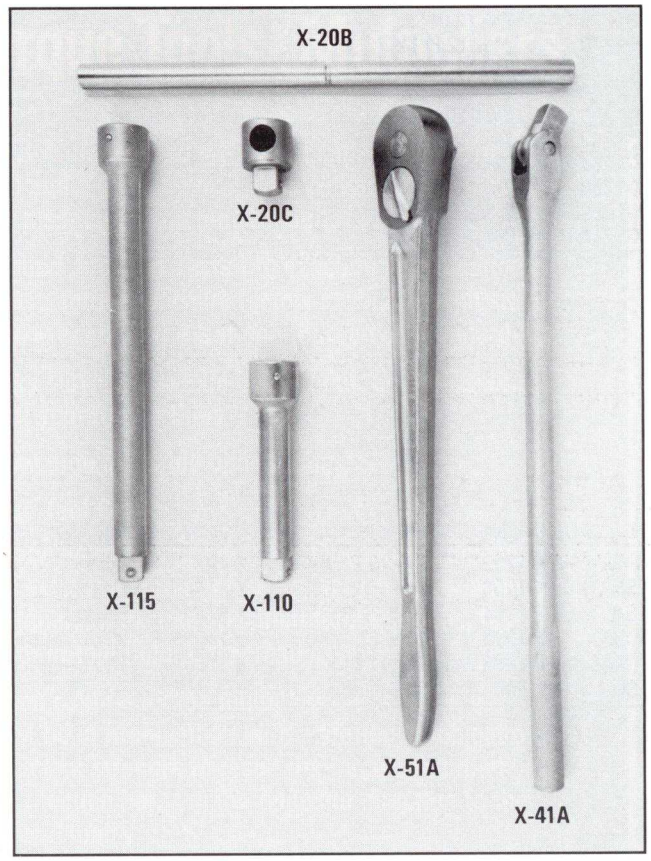
Set Cat. No. WSH-5T 40 Tools
EDP No. 59355 Weight 65.3 Lbs. – 29.7 Kg.

Williams

1″ Drive Tools & Accessories

Fed. Spec.: GGG-W-641E; ANSI B107.10M

Williams tools provide the performance, dependability and safety needed to complete big jobs.



Catalog Number	EDP Number	Description	Length	Weight Lbs.	Kg.
X-51A	56436	Ratchet – 24 tooth action	19	5.9	2.68
X-41A	50480	Flex Hdle – flex head, knurled grip	27	9.3	4.22
X-20C	50497	Adapter – for sliding handle X-20B		1.4	.64
X-20B	50496	Sliding Hdle – 1″ diameter	20	4.4	2.0
X-110	50501	Extension	9	3.7	1.7
X-115	50502	Extension	18	7.1	3.2

Repair Kits

Catalog Number	EDP Number	For	Qty.	Description
X-51A-1	50652	X-51A	1	Gland Ring
X-51A-2	56434	X-51A	1	Ratchet Gear
X-51A-3	50653	X-51A	1	Pawl
X-51A-4	50657	X-51A	1	Bearing Pin
X-51A-5	50654	X-51A	1	Plunger Spring
X-51A-6	56445	X-51A	1	Plunger Bolt
X-51A-7	50684	X-51A	1	Shifter Bolt Pin
X-51A-8	50683	X-51A	1	Plunger Ball
X-51A-W	50543	X-51A	1	Spanner Wrench For 1″ Dr. Gland

Williams

1″ Drive Regular Length Sockets

12 Point

Fed. Spec.: GGG-W-641E, Type II, Class 2, Style A; ANSI B107.1, Class 1, Style A

Featuring the "lock-socket" that provides engagement between the socket and attachments.

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
X-1234	50506	1 1/16	2 1/2	1.1	.50
X-1236	50507	1 1/8	2 1/2	1.2	.54
X-1240	50508	1 1/4	2 1/2	1.2	.54
X-1242	50847	1 5/16	2 1/2	1.3	.59
X-1244	50509	1 3/8	2 1/2	1.3	.59
X-1246	50510	1 7/16	2 3/4	1.3	.59
X-1248	50511	1 1/2	2 3/4	1.4	.64
X-1252	50512	1 5/8	3	1.9	.86
X-1258	50513	1 13/16	3	2.1	.95
X-1260	50514	1 7/8	3	2.3	1.0
X-1264	50515	2	3 1/4	2.4	1.1
X-1268	50516	2 1/8	3 1/2	3.0	1.4
X-1270	50517	2 3/16	3 1/2	3.0	1.4
X-1272	50518	2 1/4	3 1/2	3.3	1.5
X-1276	50519	2 3/8	3 3/4	3.6	1.6
X-1280	50520	2 1/2	3 3/4	3.2	1.4
X-1282	50521	2 9/16	3 3/4	5.4	2.4
X-1284	50522	2 5/8	4	6.3	2.9
X-1288	50523	2 3/4	4 1/4	6.7	3.0
X-1294	50524	2 15/16	4 1/4	7.2	3.3
X-12100	50525	3 1/8	4 1/2	8.3	3.8

Williams

1″ Drive Regular Length Socket Set

12 Point

Set Cat. No. WSX-10T 10 Sockets
EDP No. 59618 Weight 15.1 Lbs. – 6.9 Kg.

Number	Description
X-1234	1 1/16 12 Pt Skt
X-1236	1 1/8 12 Pt Skt
X-1240	1 1/4 12 Pt Skt
X-1242	1 5/16 12 Pt Skt
X-1244	1 3/8 12 Pt Skt
X-1246	1 7/16 12 Pt Skt
X-1248	1 1/2 12 Pt Skt
X-1252	1 5/8 12 Pt Skt
X-1258	1 13/16 12 Pt Skt
X-1260	1 7/8 12 Pt Skt

Williams
1" Drive Regular Length Socket Set

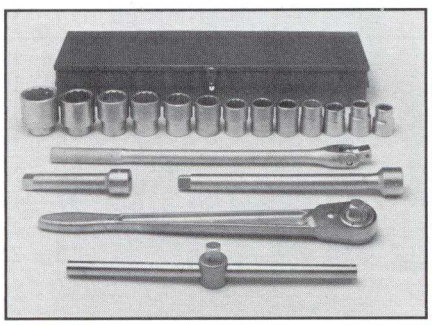
Set Cat. No. WSX-11T 11 Sockets
EDP No. 59619 Weight 52.4 Lbs. – 23.8 Kg.

Number	Description
X-1264	2 12 Pt Skt
X-1268	2 1/8 12 Pt Skt
X-1270	2 3/16 12 Pt Skt
X-1272	2 1/4 12 Pt Skt
X-1276	2 3/8 12 Pt Skt
X-1280	2 1/2 12 Pt Skt
X-1282	2 9/16 12 Pt Skt
X-1284	2 5/8 12 Pt Skt
X-1288	2 3/4 12 Pt Skt
X-1294	2 15/16 12 Pt Skt
X-12100	3 1/8 12 Pt Skt

Williams
1" Drive Socket & Drive Tool Sets

Designed for heavy service requirements with opening sizes from 1 1/16" to 3 1/8".

Set Cat. No. WSX-1 17 Tools in TB-11 Box
EDP No. 59604 Weight 70.4 Lbs. – 30.1 Kg.



Number	Description
X-1234	1 1/16 12 Pt Skt
X-1236	1 1/8 12 Pt Skt
X-1240	1 1/4 12 Pt Skt
X-1242	1 5/16 12 Pt Skt
X-1246	1 7/16 12 Pt Skt
X-1248	1 1/2 12 Pt Skt

Number	Description
X-1252	1 5/8 12 Pt Skt
X-1258	1 13/16 12 Pt Skt
X-1264	2 12 Pt Skt
X-1270	2 3/16 12 Pt Skt
X-1276	2 3/8 12 Pt Skt
X-20B	Sliding Hdle

Number	Description
X-20C	Adapter
X-41A	Flex Hdle
X-51A	Ratchet
X-110	9" Extension
X-115	18" Extension

Set Cat. No. WSX-1T 17 Tools
EDP No. 59605 Weight 52.3 Lbs. – 23.8 Kg.

Set Cat. No. WSX-4 27 Tools in TB-12 Box
EDP No. 59304 Weight 126.4 Lbs. – 67.4 Kg.

Number	Description
X-1234	1 1/16 12 Pt Skt
X-1236	1 1/8 12 Pt Skt
X-1240	1 1/4 12 Pt Skt
X-1242	1 5/16 12 Pt Skt
X-1244	1 3/8 12 Pt Skt
X-1246	1 7/16 12 Pt Skt
X-1248	1 1/2 12 Pt Skt
X-1252	1 5/8 12 Pt Skt
X-1258	1 13/16 12 Pt Skt

Number	Description
X-1260	1 7/8 12 Pt Skt
X-1264	2 12 Pt Skt
X-1268	2 1/8 12 Pt Skt
X-1270	2 3/16 12 Pt Skt
X-1272	2 1/4 12 Pt Skt
X-1276	2 3/8 12 Pt Skt
X-1280	2 1/2 12 Pt Skt
X-1282	2 9/16 12 Pt Skt
X-1284	2 5/8 12 Pt Skt

Number	Description
X-1288	2 3/4 12 Pt Skt
X-1294	2 15/16 12 Pt Skt
X-12100	3 1/8 12 Pt Skt
X-20B	Sliding Hdle
X-20C	Adapter for X-20B
X-41A	Flex Hdle
X-51A	Ratchet
X-110	9" Extension
X-115	18" Extension

Set Cat. No. WSX-4T 27 Tools
EDP No. 59305 Weight 105.0 Lbs. – 47.7 Kg.

Williams®

Section 5

Torque Tools/Multipliers

With a wide range of styles and capacities for fractional and metric applications, Williams torque tools meet most industrial requirements.

Designed and constructed to exacting specifications, Williams torque tools are factory calibrated with standards traceable to the National Bureau of Standards.

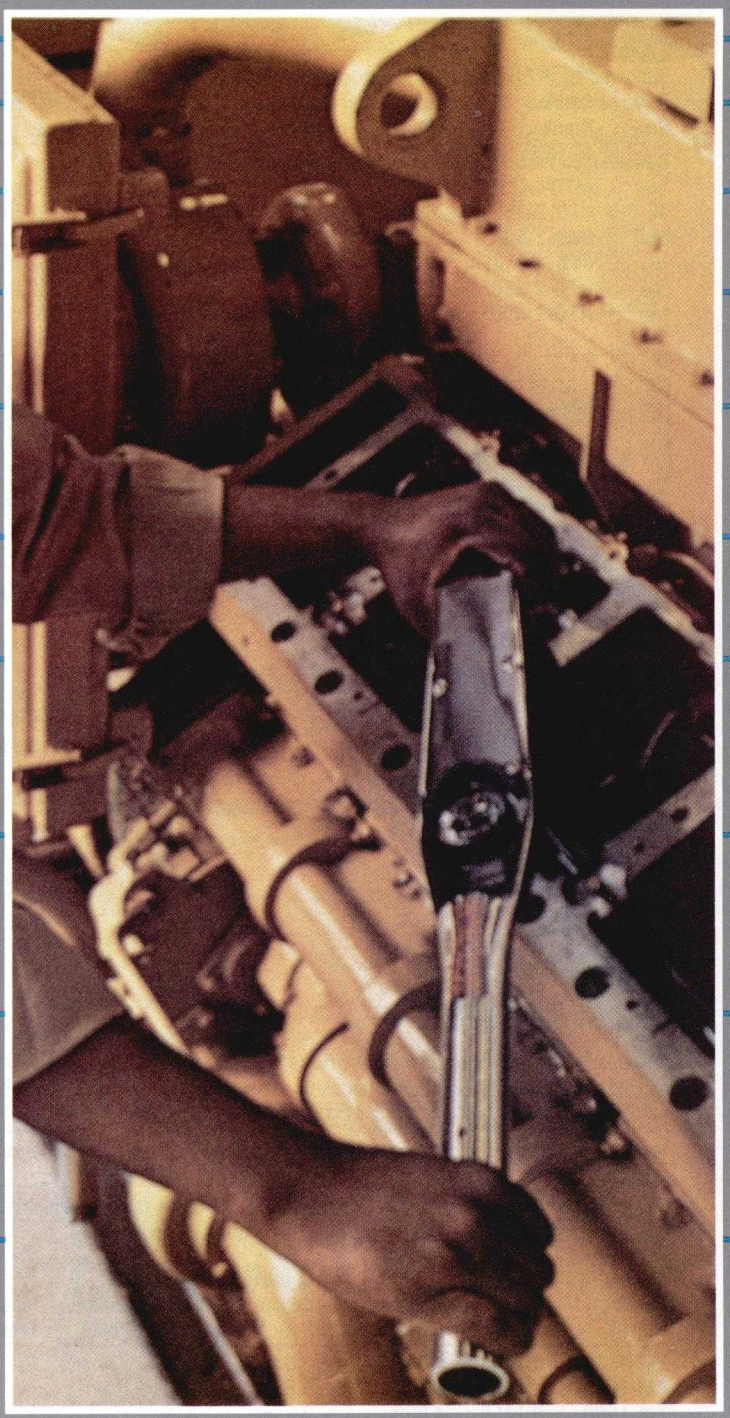
Factory service is available for repair and re-calibration of your torque tools.

Certification available upon request.

Torque Tool Safety

- Torque wrenches are precision measuring devices; not extra long drive tools. Do not use for loosening fasteners or exceed specified torque ranges; fastener or tool failure may result.
- When using a torque multiplier the reaction bar must be in firm contact with a stationary object of sufficient strength to resist the forces. Rotation of the reaction bar is in the opposite direction to the applied load.
- Do not use torque multipliers with power drive equipment. Premature wear and early failure will result.
- Good body position and balance is recommended. Pulling rather than pushing will help prevent falls in the event of tool slippage or fastener breakage.
- Inspect tools periodically and discard worn or damaged items.

Torque Value Chart For Standard Threaded Fasteners On Page 68.



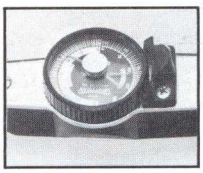
Williams
Dial Type Torque Wrenches
U.S. & Metric Applications

Fed. Spec.: GGG-W-00686C, Type II, Class 1, Style A, B and C; ANSI B107.14M

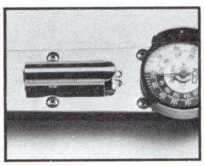
Williams dial torque wrenches meet most industrial needs. The memory needle provides an additional pointer which remains at the highest torque value attained for positive verification. When the reading is no longer needed, the memory needle is reset to zero. The light signal feature can be preset to selected torque value and will signal the operator when the desired torque is reached.

Most styles have unique combination dial faces which permit measurement of torque in either fractional or metric values – in either left or right hand direction. Rigidly constructed for a lifetime of dependable performance, they are calibrated to meet the highest standards of industry accuracy. Calibration can be certified and traceable to National Bureau of Standards.

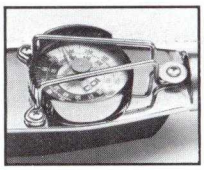
	Style										
	Memory Needle		Light Signal		Fractional (U.S.)		Metric			Weight	
Drive Size	Catalog Number	EDP Number	Catalog Number	EDP Number	Range	Increments	Range	Increments	Length Inches	Lbs.	Kg.
Combination Fractional (U.S.) & Metric Measurements											
¼	**MTD-2-75**	51600	—	—	0-75 in lb	1 in lb	0-9 Nm	0.2 Nm	10	1.8	.82
⅜	**BTD-2-250**	51602	—	—	0-250 in lb	5 in lb	0-30 Nm	0.5 Nm	10	1.8	.82
⅜	**BTD-2-50F**	51603	**BTD-3-50F**	51604	0-50 ft lb	1 ft lb	0-70 Nm	2 Nm	14.9	2.0	.91
½	**STD-2-250F**	51606	**STD-3-250F**	51607	0-250 ft lb	5 ft lb	0-350 Nm	10 Nm	22.5	3.8	1.7
¾	**HTD-2-350F†**	51639	—	—	0-350 ft lb	10 ft lb	0-480 Nm	10 Nm	27.75	8.0	3.6
¾	**HTD-2-600F**	51608	**HTD-3-600F**	51609	0-600 ft lb	10 ft lb	0-800 Nm	20 Nm	46.5*	9.5	4.3
1	—	—	**XTD-3-2000F**	51610	0-2000 ft lb	40 ft lb	0-2800 Nm	50 Nm	120*	21.0	9.5



Memory Needle Dial
Memory Needle Combination Dial provides an additional pointer.



Electric Light Signal
When desired torque has been reached, electric signal will flash on. Light goes off when pressure is released.

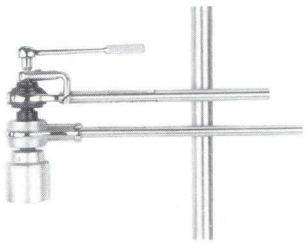


Dial Guard
Dial Guard, HTD-DG, fits ½" and ¾" drive sizes (included with HTD-2-350F only). Weight .3 Pounds

*Length includes extension.
†Dial Guard, Catalog Number HTD-DG, EDP No. 51640 is included but also fits ½" and ¾" drive size Torque Wrenches.

Williams
Torque Multiplier Anti-Backlash Tool

ST-50 ABR



This tool solves the "wind-up" problem usually experienced when using Torque Multipliers in tandem. The anti-backlash tool acts as a storage dog to maintain the multiplied torque, while preventing backlash. Since constant pressure is being held, the set up maintains rigidity so that only a short swing arc is required to complete the turning process swiftly and securely.

Catalog Number	EDP Number	Drive Size	Description	Weight Lbs.	Kg.
ST-50ABR	50779	½ M & F	Anti-Backlash Tool	1.4	.64

Williams
Torque Multiplier

Williams Torque Multipliers provide the operator with nut-turning power that requires only a fraction of the force required when using conventional tools. Force applied by the operator, multiplies torque nearly six times depending on the characteristics of the model in use.

Input and output rotation is in the same direction. Reaction bar rotation is opposite to input direction. Reaction bar must rest securely against a rigid object to withstand the generated reaction force. All reaction bars are securely locked with heads. By removing four screws, heads may be disassembled for inspection, cleaning and lubrication.

Two Williams Torque Multipliers may be used in combination to provide multiple ratios when extreme turning power is required. Contact Williams Engineering Department for specific solutions to your Torque Multiplier needs.

Catalog Number	EDP Number	Max. Output Foot Pounds	Multiplication Ratio*	Approximate Ft. Lbs. Required for Max. Output	Input Female Sq.	Output Male Sq.	Head Thick Inc. Tang	Head Dia.	Overall Length Incl. Reaction Bar	Weight Lbs.	Kg.
TM-750LW	51453	1,000	3.6 to 1	275	½	¾	3⅜	3½	22½	5.5	2.5
TM-1000	51454	2,000	3.6 to 1	550	¾	1	4⅜	3¾	25½	14.0	6.4
TM-1500	51455	4,000	3.9 to 1	1,015	1	1½	6 3/16	5¼	29¾	35.0	15.8
TM-2000	51464	8,000	4.6 to 1	1,915	1	1½	6⅜	6½	31	47.0	21.3
TM-2500	51456	12,000	5.4 to 1	2,200	1	2½	7	8	30	78.0	35.4

*Multipliers are mechanical devices which have frictional losses. A 10% factor was included in the multiplication ratio. For higher accuracy of multiplication ratio, output of unit should be checked on torque tester.

Williams
"Click Type" Torque Wrenches
Fractional & Metric Applications

Fed. Spec.: GGG-W-00686C-1, Type III, Class 1, 2, 3 and 4; ANSI B107.14M

Versatile Design
Slim tapered head for easy reach in confined spaces. Wide right or left hand torque measuring capability in every tool often means that one torque wrench can now do a multitude of jobs. Many models have dual fractional/metric marking scales. Available in ratcheting and nonratcheting versions.

Preset Types
These are the same as the adjustable type except that torque is set by means of an adjusting screw located in the handle cavity. The cavity is then sealed with a special aluminum plug which precludes adjustment of the torque setting without damaging the plug. Ideal for production line and quality control requirements.

Adjustable Types
Simply set the micrometer style handle to the desired setting and lock in place. The torque indicating device will momentarily release signaling an audible click and a feel impulse when the predetermined torque has been reached. By relaxing input force, the torque wrench is then ready for another fastener.

Adjustable Screwdriver Head

Catalog Number	EDP Number	Drive Size	Fractional (U.S.) Range	Fractional (U.S.) Increments	Length Inches	Weight Lbs.	Weight Kg.
MTW-10SA	51320	¼	4-100 in oz	2 in oz	6.5	.4	.18
MTW-50SA	51321	¼	2-30 in lb	1 in lb	6.5	.4	.18

Ratchet Head Torque Wrenches – Adjustable Setting

Catalog Number	EDP Number	Drive Size	Fractional (U.S.) Range	Fractional (U.S.) Increments	Metric Range	Metric Increments	Length Inches	Weight Lbs.	Weight Kg.
BTW-1RC	51324	⅜	30-250 in lb	1 in lb	3.96-28.82 Nm	.11 Nm	13.0	1.6	.73
BTW-2RC	51329	⅜	150-1000 in lb	5 in lb	19.78-1150.83 Nm	.55 Nm	15.0	2.3	1.0
BTW-2RCF	51330	⅜	15-100 ft lb	.5 ft lb	23.7-138.9 Nm	.68 Nm	15.0	2.3	1.0
STW-3RC	51336	½	300-2500 in lb	10 in lb	—	—	21.0	2.8	1.3
STW-3RCF	51337	½	30-250 ft lb	1 ft lb	47.45-345.6 Nm	1.36 Nm	21.0	2.8	1.3
STW-3RCM	51339	½	—	—	5-35 cm kg	5 m kg	21.0	2.8	1.3
HTW-4RCF	51344	¾	100-600 ft lb	2.5 ft lb	153-830 Nm	3.4 Nm	40.0	10.0	4.5

Ratchet Head Torque Wrenches – Preset Setting

Catalog Number	EDP Number	Drive Size	Fractional (U.S.) Range	Metric Range	Length Inches	Weight Lbs.	Weight Kg.
BTW-1R	51325	⅜	30-250 in lb	4-29 Nm	13.0	1.4	.64
BTW-2RF	51331	⅜	15-100 ft lb	24-139 Nm	15.0	1.8	.82
STW-3RF	51338	½	30-250 ft lb	48-346 Nm	20.0	2.3	1.0

Fixed Head Torque Wrenches – Adjustable Setting

Catalog Number	EDP Number	Drive Size	Fractional (U.S.) Range	Fractional (U.S.) Increments	Metric Range	Metric Increments	Length Inches	Weight Lbs.	Weight Kg.
STW-3PCF	51334	½	30-250 ft lb	1 ft lb	47.45-345.68 Nm	1.36 Nm	20.0	2.3	1.0
HTW-4PCF	51341	¾	100-600 ft lb	2.5 ft lb	153-830 Nm	3.4 Nm	40.0	9.5	4.3
XTW-5PCFA	51346	1	300-2000 ft lb	10 ft lb	474-2600 Nm	13.5 Nm	105.0*	57.5	26.0

*Length Includes Extension

Williams
Torque Values – Standard Threaded Fasteners

NOTE: Average torque values shown assume dry threads, similar materials on all mating surfaces with normal machined finishes. The recommended amounts of torque are intended for assistance in selecting torque wrench size and should be verified before being used for specific application.

Strength indications are shown in pounds/square inch minimum tensile strength.

ASTM A325 STRUCTURAL BOLTS

Thread Size	Hex Size Bolt (Regular)	Hex Size Nut (Heavy)	Torque
1/2	3/4	7/8	100 ft. lbs.
5/8	15/16	1 1/16	200 ft. lbs.
3/4	1 1/8	1 1/4	355 ft. lbs.
7/8	1 5/16	1 7/16	525 ft. lbs.
1	1 1/2	1 5/8	790 ft. lbs.
1 1/8	1 11/16	1 13/16	1060 ft. lbs.
1 1/4	1 7/8	2	1500 ft. lbs.
1 3/8	2 1/16	2 3/16	1960 ft. lbs.
1 1/2	2 1/4	2 3/8	2600 ft. lbs.

PIPE PLUGS

Plug Size	Hex Drive	Torque
1/16	5/32	150 in. lbs.
1/8	3/16	250 in. lbs.
1/4	1/4	600 in. lbs.
3/8	5/16	100 ft. lbs.
1/2	3/8	150 ft. lbs.
3/4	9/16	250 ft. lbs.
1	5/8	350 ft. lbs.
1 1/4	3/4	450 ft. lbs.
1 1/2	1	575 ft. lbs.
2	1	709 ft. lbs.

SQUARE HEAD SET SCREW

Thread Size	Head Size	Torque
10	1/4	68 in. lbs.
1/4	1/4	145 in. lbs.
5/16	5/16	300 in. lbs.
3/8	3/8	500 in. lbs.
7/16	7/16	850 in. lbs.
1/2	1/2	106 ft. lbs.
9/16	5/8	212 ft. lbs.
3/4	3/4	375 ft. lbs.
7/8	7/8	604 ft. lbs.
1	1	879 ft. lbs.
1 1/8	1 1/8	1410 ft. lbs.
1 1/4	1 1/4	1965 ft. lbs.
1 3/8	1 3/8	2635 ft. lbs.
1 1/2	1 1/2	3150 ft. lbs.

HEX HEAD CAP SCREWS

Thread Size	Head Size: Regular Bolts	Regular Nuts	Heavy Bolts	Heavy Nuts	Finished Bolts	Finished Nuts	Torque: Not Heat Treated 64,000 psi	Heat Treated 125,000 psi	Brass 60,000 psi
4	7/16 *	7/16		1/2	7/16	7/16	78 in. lbs.	132 in. lbs.	62 in. lbs.
5/16	1/2	9/16		9/16	1/2	1/2	124 in. lbs.	240 in. lbs.	107 in. lbs.
3/8	9/16	5/8		11/16	9/16	9/16	222 in. lbs.	408 in. lbs.	192 in. lbs.
7/16	5/8	3/4		3/4	5/8	11/16	349 in. lbs.	648 in. lbs.	312 in. lbs.
1/2	3/4	13/16	7/8	7/8	3/4	3/4	476 in. lbs.	972 in. lbs.	420 in. lbs.
9/16	13/16	7/8		15/16	13/16	7/8	640 in. lbs.	119 ft. lbs.	564 in. lbs.
5/8	15/16	1	1 1/16	1 1/16	15/16	15/16	93 ft. lbs.	167 ft. lbs.	912 in. lbs.
3/4	1 1/8	1 1/8	1 1/4	1 1/4	1 1/8	1 1/8	150 ft. lbs.	270 ft. lbs.	102 ft. lbs.
7/8	1 5/16	1 5/16	1 7/16	1 7/16	1 5/16	1 5/16	202 ft. lbs.	425 ft. lbs.	158 ft. lbs.
1	1 1/2	1 1/2	1 5/8	1 5/8	1 1/2	1 1/2	300 ft. lbs.	645 ft. lbs.	212 ft. lbs.
1 1/8	1 11/16	1 11/16	1 13/16	1 13/16	1 11/16	1 11/16	475 ft. lbs.	1005 ft. lbs.	320 ft. lbs.
1 1/4	1 7/8	1 7/8	2	2	1 7/8	1 7/8	660 ft. lbs.	1390 ft. lbs.	395 ft. lbs.
1 3/8	2 1/16	2 1/16	2 3/16	2 3/16	2 1/16	2 1/16	885 ft. lbs.	1870 ft. lbs.	
1 1/2	2 1/4	2 1/4	2 3/8	2 3/8	2 1/4	2 1/4	1055 ft. lbs.	2235 ft. lbs.	
1 5/8	2 7/16	2 7/16	2 9/16	2 9/16	2 7/16	2 7/16	1450 ft. lbs.	3060 ft. lbs.	
1 3/4	2 5/8	2 5/8	2 3/4	2 3/4	2 5/8	2 5/8	1885 ft. lbs.	3980 ft. lbs.	
1 7/8	2 13/16	2 13/16	2 15/16	2 15/16	2 13/16	2 13/16	2335 ft. lbs.	5455 ft. lbs.	
2	3	3	3 1/8	3 1/8	3	3	2720 ft. lbs.	5750 ft. lbs.	

*3/8 inch for square head regular series bolts

MACHINE SCREWS AND BOLTS

Thread Size	Driver Size: Slot Width	Phillips	Clutch	Torque: Steel 55,000 psi	Brass 60,000 psi	Si. Bronze 70,000 psi	Stainless 75,000 psi	Aluminum 55,000 psi
	0.016	0		16.0 in. oz.	11.0 in. oz.	13.0 in. oz.	14.0 in. oz.	8.0 in. oz.
1	0.019	0		28.0 in. oz.	19.0 in. oz.	23.0 in. oz.	24.0 in. oz.	15.0 in. oz.
2	0.023	1	3/32	2.6 in. lbs.	2.0 in. lbs.	2.3 in. lbs.	2.5 in. lbs.	1.4 in. lbs.
3	0.027	1	3/32	4.0 in. lbs.	3.2 in. lbs.	3.6 in. lbs.	4.0 in. lbs.	2.1 in. lbs.
4	0.031	1	3/32	5.5 in. lbs.	4.3 in. lbs.	4.8 in. lbs.	5.2 in. lbs.	2.9 in. lbs.
5	0.035	2		8.0 in. lbs.	6.8 in. lbs.	7.1 in. lbs.	8.0 in. lbs.	4.2 in. lbs.
6	0.039	2	1/8	10.0 in. lbs.	8.0 in. lbs.	9.0 in. lbs.	9.6 in. lbs.	5.3 in. lbs.
8	0.045	2	5/32	21.0 in. lbs.	16.0 in. lbs.	18.0 in. lbs.	20.0 in. lbs.	11.0 in. lbs.
10	0.050	2	5/32	24.0 in. lbs.	19.0 in. lbs.	21.0 in. lbs.	23.0 in. lbs.	14.0 in. lbs.
1/4	0.064	3	1/4	79.0 in. lbs.	62.0 in. lbs.	69.0 in. lbs.	75.0 in. lbs.	45.0 in. lbs.
5/16	0.072	3	5/32	138.0 in. lbs.	107.0 in. lbs.	123.0 in. lbs.	132.0 in. lbs.	80.0 in. lbs.
3/8	0.081	4	5/16	252.0 in. lbs.	192.0 in. lbs.	216.0 in. lbs.	240.0 in. lbs.	144.0 in. lbs.
7/16	0.081	4		396.0 in. lbs.	312.0 in. lbs.	348.0 in. lbs.	372.0 in. lbs.	228.0 in. lbs.
1/2	0.091	4		540.0 in. lbs.	420.0 in. lbs.	480.0 in. lbs.	516.0 in. lbs.	312.0 in. lbs.
9/16	0.102			708.0 in. lbs.	564.0 in. lbs.	624.0 in. lbs.	684.0 in. lbs.	408.0 in. lbs.
5/8	0.116			97.0 ft. lbs.	912.0 in. lbs.	86.0 ft. lbs.	92.0 ft. lbs.	720.0 in. lbs.
3/4	0.131			130.0 ft. lbs.	102.0 ft. lbs.	115.0 ft. lbs.	124.0 ft. lbs.	960.0 in. lbs.

SOCKET HEAD CAP SCREW

Thread Size	Socket Size: Standard	Flat Head	Set Screw	Button Head	Shoulder	Torque*: Standard	Set Flat Head	Button Screw	Head	Shoulder
0	.050	.035	.028	.035		2 in. lbs.	2 in. lbs.	1/2 in. lbs.	1 1/2 in. lbs.	
1	1/16	.050	.035	.050		4 in. lbs.	2 1/2 in. lbs.	1 1/2 in. lbs.	2 in. lbs.	
2	5/64	.050	.035	.050		6 1/2 in. lbs.	4 1/4 in. lbs.	1 1/2 in. lbs.	4 in. lbs.	
3	5/64	1/16	.050	1/16		10 in. lbs.	7 in. lbs.	5 in. lbs.	5 1/2 in. lbs.	
4	3/32	1/16	.050	1/16		14 in. lbs.	8 1/2 in. lbs.	5 in. lbs.	7 1/2 in. lbs.	
5	3/32	5/64	1/16	5/64		20 1/2 in. lbs.	12 1/2 in. lbs.	9 in. lbs.	11 in. lbs.	
6	7/64	5/64	1/16	5/64		26 1/2 in. lbs.	16 in. lbs.	9 in. lbs.	14 1/2 in. lbs.	
8	9/64	3/32	5/64	3/32		47 in. lbs.	30 1/2 in. lbs.	20 in. lbs.	25 1/2 in. lbs.	
10	5/32	1/8	3/32	1/8		71 1/2 in. lbs.	42 1/2 in. lbs.	33 in. lbs.	42 1/2 in. lbs.	
1/4	3/16	5/32	1/8	5/32	1/8	169 in. lbs.	105 in. lbs.	87 in. lbs.	102 in. lbs.	45 in. lbs.
5/16	1/4	3/16	5/32	3/16	5/32	343 in. lbs.	207 in. lbs.	165 in. lbs.	207 in. lbs.	112 in. lbs.
3/8	5/16	7/32	3/16	7/32	3/16	620 in. lbs.	375 in. lbs.	290 in. lbs.	377 in. lbs.	230 in. lbs.
7/16	3/8	1/4	7/32			985 in. lbs.	592 in. lbs.	430 in. lbs.		
1/2	3/8	5/16	1/4	5/16	1/4	132 ft. lbs.	905 in. lbs.	620 in. lbs.	903 in. lbs.	388 in. lbs.
9/16	7/16	5/16	1/4			162 ft. lbs.	113 ft. lbs.	620 in. lbs.		
5/8	1/2	3/8	5/16	3/8	5/16	249 ft. lbs.	151 ft. lbs.	102 ft. lbs.	150 ft. lbs.	990 ft. lbs.
3/4	5/8	3/8	3/8		3/8	440 ft. lbs.	286 ft. lbs.	177 ft. lbs.		165 ft. lbs.
7/8	3/4	1/2	1/2		1/2	740 ft. lbs.	433 ft. lbs.	415 ft. lbs.		291 ft. lbs.
1	3/4	9/16	9/16		1/2	1135 ft. lbs.	675 ft. lbs.	585 ft. lbs.		291 ft. lbs.
1 1/8	7/8		9/16			1285 ft. lbs.		585 ft. lbs.		
1 1/4	7/8		5/8		5/8	1800 ft. lbs.		800 ft. lbs.		468 ft. lbs.
1 3/8	1		5/8			2400 ft. lbs.		800 ft. lbs.		
1 1/2	1		3/4			3008 ft. lbs.		945 ft. lbs.		
1 3/4	1 1/4					4950 ft. lbs.				
2	1 1/2					7708 ft. lbs.				

*Thread stress 100,000 psi for sizes to 1 inch – 80,000 psi for larger

Williams®

Section 6

Fractional Impact Sockets

All Williams impact sockets are made from extra tough selected alloy, forged and heat-treated to withstand the constant shock associated with impact tools.

Williams thin wall impact sockets provide extra clearance in tight working areas. A select group of ½" drive impact sockets are manufactured with surface-drive design. This feature provides contact with the flats rather than the corners of hex nuts and has the advantage of self-seating as required on multiple nut runners. These sockets are identified by an "A" suffix to the Catalog Number.

All ¾", 1", 1½" and 2½" drive impact sockets are of flank-drive design, featuring strategic corner reliefs. These sockets allow higher operating torques since power transfer is taken away from the critical corners of the fastener and placed on the flats. Power distribution is improved, tool wear is reduced, and surface integrity of the fastener head is maintained.

Refer to page 126 for product specifications.

Safe Use of Impact Sockets and Accessories

- Adapting down in drive sizes can result in excessive torque application and possible failure of adapter.
- Sockets should be seated squarely.
- When using power drives always use proper protective equipment – at least approved eye protection and gloves.
- O-Rings on power sockets must be in good condition and firmly retain the drive pin. Do not substitute bent nails for the proper retention method.
- Inspect tools periodically and discard worn or damaged tools.

Conversion Chart For Fractional Socket Openings To Decimal And Millimeter Sizes On Page 78.

Williams has established a Custom Set Department dedicated to the make-up of tool sets to meet competitive or special purpose requirements. For a quick response, direct your inquiry or set specifications to our Customer Service Department.

Williams
1/4" Drive Impact Extensions

Black Finish

Impact extensions may be used for accessibility where long length sockets do not suffice.

Catalog Number	EDP Number	Length	Square Female	Square* Male	Weight Lbs.	Kg.
Impact Extension Regular Type – Fed. Spec.: GGG-W-660A, Type II						
0-102A	53149	2	1/4	1/4	.06	.03
0-106A	53187	6	1/4	1/4	.09	.04

Catalog Number	EDP Number	Length	Square* Male	Hex Male	Weight Lbs.	Kg.
Impact Extension Hexagon/Square Shank						
0-02A	53398	2	1/4	1/4	.05	.02
0-04A	53399	4	1/4	1/4	.11	.05

*Male square has spring plunger.

Williams
1/4" Drive Regular Length Impact Sockets

Thin Wall, 6 Point
Black Finish

Williams popular sized, thin wall sockets provide extra clearance in tight working areas.

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
30-606	52000	3/16	29/32	.02	.009
30-607	52001	7/32	29/32	.02	.008
30-608	52002	1/4	29/32	.02	.009
30-609	52003	9/32	29/32	.03	.014
30-610	52004	5/16	15/16	.02	.009
30-611	52005	11/32	15/16	.02	.009
30-612	52006	3/8	15/16	.04	.018
30-614	52007	7/16	15/16	.03	.014
30-616	52008	1/2	15/16	.04	.018

Williams
1/4" Drive Long Length Impact Sockets

6 Point
Black Finish

Fed. Spec.: GGG-W-660A, Type I, Class 1, Style B

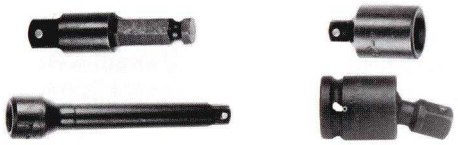
Long length for versatility and bolt clearance.

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
10-608	53358	1/4	2	.05	.023
10-610	53359	5/16	2	.06	.027
10-612	53360	3/8	2	.08	.036
10-614	53014	7/16	2	.09	.041

Williams
3/8" Drive Impact Tool Accessories
Black Finish

Fed. Spec.: GGG-W-660A, Type III, Adapter; GGG-W-660A, Type II, Extension; GGG-W-660A, Type IV, Universal Joint

Williams impact tools and accessories are engineered for the toughest jobs.



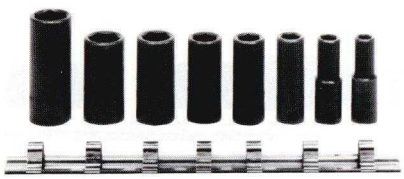
Catalog Number	EDP Number	Description	Sq. Fem.	Male	Lgth.	Weight Lbs.	Kg.
2-02A	52100	Hex. – Sq. Shank		3/8 sq x 1/4 hex	2	.06	.03
2-33A	53413	Hex. – Sq. Shank		3/8 sq x 7/16 hex	2 3/4	.15	.07
2-35A	53422	Hex. – Sq. Shank		3/8 sq x 7/16 hex	5	.28	.13
2-38A	52102	Hex. – Sq. Shank		3/8 sq x 7/16 hex	8	.53	.24
2-4A	52074	Adapter	3/8	1/2 square	1 3/8	.14	.06
2-103A	53155	Extension	3/8	3/8 square	3	.09	.04
2-106A	53153	Extension	3/8	3/8 square	6	.35	.16
2-140A	53495	Universal Joint, range – 0° to 55°	3/8	3/8 square	2 5/16	.16	.07

Williams
3/8" Drive Long Length Impact Sockets & Sets
6 Point
Black Finish

Fed. Spec.: GGG-W-660A, Type I, Class 1, Style B

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
12-610	52270	5/16	2	.15	.07
12-612	52271	3/8	2	.15	.07
12-614	52272	7/16	2	.15	.07
12-616	52273	1/2	2	.15	.07
12-618	52274	9/16	2	.18	.08
12-620	52275	5/8	2	.19	.09
12-622	52276	11/16	2	.23	.10
12-624	52277	3/4	2	.25	.11

Set Cat. No. WS-12-8 8 Sockets and RB-10 Rail with Clips
EDP No. 59746 Weight 1.3 Lbs. – .59 Kg.



Number	Description	Number	Description
12-610	5/16 6 Pt Dp Skt	12-618	9/16 6 Pt Dp Skt
12-612	3/8 6 Pt Dp Skt	12-620	5/8 6 Pt Dp Skt
12-614	7/16 6 Pt Dp Skt	12-622	11/16 6 Pt Dp Skt
12-616	1/2 6 Pt Dp Skt	12-624	3/4 6 Pt Dp Skt

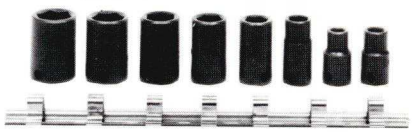
Set Cat. No. WS-12-8T 8 Sockets
EDP No. 59747 Weight .95 Lbs. – .43 Kg.

Williams
3/8" Drive Regular Length Impact Sockets & Set
6 & 12 Point
Black Finish

Made from extra tough selected alloy, specifically cold extruded and heat-treated to withstand the constant shock associated with power driven tools. Use thin wall sockets where extra clearance is required.

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
6 Point – Fed. Spec.: GGG-W-660A, Type I, Class I, Style A; ANSI B107.2-1975, Class 1, Style A					
2-610	52260	5/16	1 1/4	.08	.04
2-612	52261	3/8	1 1/4	.08	.04
2-614	52262	7/16	1 1/2	.08	.04
2-616	52263	1/2	1 1/2	.08	.04
2-618	52264	9/16	1 1/2	.13	.06
2-620	52265	5/8	1 1/2	.14	.06
2-622	52266	11/16	1 1/2	.18	.08
2-624	52267	3/4	1 1/2	.20	.09
12 Point Thin Wall					
32-1208	52022	1/4	17/32	.06	.03
32-1210	52023	5/16	17/32	.05	.02
32-1212	52024	3/8	17/32	.05	.02
32-1214	52025	7/16	17/32	.06	.03
32-1216	52026	1/2	17/32	.07	.03
32-1218	52027	9/16	17/32	.09	.04
32-1220	52028	5/8	17/32	.09	.04
32-1222	52029	11/16	17/32	.11	.05
32-1224	52030	3/4	17/32	.15	.07

Set Cat. No. WS-2-8 8 Sockets and RB-10 Rail with Clips
EDP No. 59742 Weight .85 Lbs. – .39 Kg.



Number	Description	Number	Description
2-610	5/16 6 Pt Skt	2-618	9/16 6 Pt Skt
2-612	3/8 6 Pt Skt	2-620	5/8 6 Pt Skt
2-614	7/16 6 Pt Skt	2-622	11/16 6 Pt Skt
2-616	1/2 6 Pt Skt	2-624	3/4 6 Pt Skt

Set Cat. No. WS-2-8T 8 Sockets
EDP No. 59743 Weight .76 Lbs. – .34 Kg.

Williams
½" Drive Impact Tool Accessories
Black Finish

Fed. Spec.: GGG-W-660A, Type III, Adapter; GGG-W-660A, Type II, Extension; GGG-W-660A, Type IV, Universal Joint

Catalog Number	EDP Number	Description	Sq. Fem.	Male	Lgth.	Weight Lbs.	Weight Kg.
4-2A	52075	Adapter	½	⅜ Square	1½	.13	.06
4-5A	52076	Adapter	½	⅝ Square	1 11/16	.23	.10
4-6	51085	Adapter	½	¾ Square	1 11/16	.35	.16
4-33A	53415	Hexagon – Square Shank		½ Sq x 7/16 Hex	2¾	.18	.08
4-35A	53417	Hexagon – Square Shank		½ Sq x 7/16 Hex	5	.40	.18
4-53A	53416	Hexagon – Square Shank		½ Sq x ⅝ Hex	3	.28	.13
4-105A	53176	Extension	½	½ Square	5½	.54	.25
4-110A	53181	Extension	½	½ Square	10	1.0	.45
4-140A	53505	Universal Joint, range 0° to 55°	½	½ Square	2 15/16	.36	.16
⅝" Sq. Drive Adapters							
5-4A	53188	Adapter	⅝	½ Square	1⅞	.35	.16
5-6	52082	Adapter	⅝	¾ Square	2	.43	.20

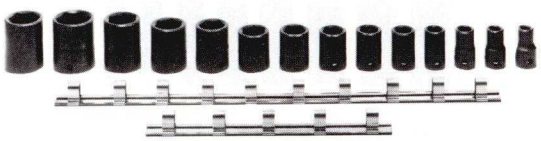
Adapter 5-4A, Male Square has Spring Plunger
Adapter 5-6, Male Square has thru Pin Hole

Williams
½" Drive Regular Length Impact Sockets & Sets
6 & 12 Point
Black Finish

Fed. Spec.: GGG-W-600A, Type I, Class 1, Style A; ANSI B107.2, Class 1, Style A

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Weight Kg.
6 Point					
4-612	53321	⅜	1½	.15	.07
4-614	53298	7/16	1½	.15	.07
4-616	53296	½	1½	.19	.09
4-618	53295	9/16	1½	.19	.09
4-620	53299	⅝	1½	.18	.08
4-622	53300	11/16	1½	.22	.10
4-624	53301	¾	1½	.27	.12
4-626	53338	13/16	1½	.34	.15
4-628	53297	⅞	1½	.35	.16
4-630	53302	15/16	1¾	.43	.20
4-632	53336	1	1¾	.50	.23
4-634	53339	1 1/16	2	.63	.29
4-636	53371	1⅛	2	.70	.32
4-638	53372	1 3/16	2	.74	.34
4-640	52071	1¼	2	.72	.33
6 Point – Surface Drive					
4-616A	53313	½	1½	.16	.07
4-618A	53310	9/16	1½	.16	.07
4-620A	53311	⅝	1½	.16	.07
4-622A	53332	11/16	1½	.19	.09
4-624A	53333	¾	1½	.23	.10
4-626A	53334	13/16	1½	.28	.13
4-628A	53335	⅞	1½	.31	.14
12 Point – Thin Wall					
34-1214	52034	7/16	1½	.11	.05
34-1216	52035	½	1½	.11	.05
34-1218	52036	9/16	1½	.13	.06
34-1220	52037	⅝	1½	.14	.06
34-1222	52038	11/16	1½	.17	.08
34-1224	52039	¾	1½	.19	.09
34-1226	52040	13/16	1½	.23	.10
34-1228	52041	⅞	1⅝	.27	.12
34-1230	52042	15/16	1⅝	.29	.13

Set Cat. No. WS-4-14 14 Sockets and RS-10 and RS-5 Rails with Clips
EDP No. 59744 Weight 5.1 Lbs. – 2.3 Kg.



Number	Description	Number	Description
4-612	⅜ 6 Pt Skt	4-626	13/16 6 Pt Skt
4-614	7/16 6 Pt Skt	4-628	⅞ 6 Pt Skt
4-616	½ 6 Pt Skt	4-630	15/16 6 Pt Skt
4-618	9/16 6 Pt Skt	4-632	1 6 Pt Skt
4-620	⅝ 6 Pt Skt	4-634	1 1/16 6 Pt Skt
4-622	11/16 6 Pt Skt	4-636	1⅛ 6 Pt Skt
4-624	¾ 6 Pt Skt	4-640	1¼ 6 Pt Skt

Set Cat. No. WS-4-14T 14 Sockets
EDP No. 59745 Weight 5.0 Lbs. – 2.3 Kg.

Williams

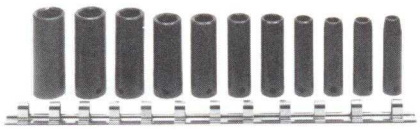
½" Drive Long Length Impact Sockets & Set

6 Point
Black Finish

Fed. Spec.: GGG-W-660A, Type I, Class 1, Style B

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
14-612	53271	3/8	3 1/4	.37	.17
14-614	53200	7/16	3 1/4	.37	.17
14-616	53201	1/2	3 1/4	.33	.15
14-618	53202	9/16	3 1/4	.30	.14
14-620	53203	5/8	3 1/4	.35	.16
14-622	53354	11/16	3 1/4	.44	.20
14-624	53234	3/4	3 1/4	.47	.21
14-626	53272	13/16	3 1/4	.57	.26
14-628	53273	7/8	3 1/2	.71	.32
14-630	53204	15/16	3 1/2	.81	.37
14-632	53274	1	3 1/2	.89	.40

Set Cat. No. WS-14-11 11 Sockets and RS-12 Rail with Clips
EDP No. 59748 Weight 5.6 Lbs. – 2.5 Kg.



Number	Description
14-612	3/8 6 Pt Dp Skt
14-614	7/16 6 Pt Dp Skt
14-616	1/2 6 Pt Dp Skt
14-618	9/16 6 Pt Dp Skt
14-620	5/8 6 Pt Dp Skt
14-622	11/16 6 Pt Dp Skt

Number	Description
14-624	3/4 6 Pt Dp Skt
14-626	13/16 6 Pt Dp Skt
14-628	7/8 6 Pt Dp Skt
14-630	15/16 6 Pt Dp Skt
14-632	1 6 Pt Dp Skt

Set Cat. No. WS-14-11T 11 Sockets
EDP No. 59749 Weight 5.6 Lbs. – 2.5 Kg.

Williams
¾" Drive Impact Tool Accessories
Black Finish

Fed. Spec.: GGG-W-660A, Type III, Adapter; GGG-W-660A, Type II, Extension; GGG-W-660A, Type IV, Universal Joint

Catalog Number	EDP Number	Description	Square Female	Square Male	Length	Weight Lbs.	Kg.
6-4A	51093	Adapter	¾	½	2 3/16	.70	.32
6-7	53190	Adapter	¾	1	1 15/16	.88	.41
6-107	53169	Extension	¾	¾	6⅞	1.8	.82
6-110	53170	Extension	¾	¾	9 13/16	2.6	1.2
6-113	53171	Extension	¾	¾	12 13/16	3.3	1.5
6-140	52149	Universal – range 55°	¾	¾	1¾	1.3	.59

Williams
¾" Drive Regular Length Impact Sockets
6 Point
Black Finish

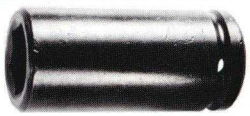
Fed. Spec.: GGG-W-660A, Type I, Class 1, Style A; ANSI B107.2, Class 1, Style A

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
6-620	53207	⅝	1¾	.62	.28
6-622	53069	11/16	1¾	.61	.28
6-624	53070	¾	1¾	.62	.28
6-626	53072	13/16	1⅞	.69	.31
6-628	53073	⅞	1⅞	.70	.32
6-630	53074	15/16	1⅞	.75	.34
6-632	53075	1	1⅞	.78	.35
6-634	53076	1 1/16	2 1/16	.78	.35
6-636	53077	1⅛	2 1/16	.80	.36
6-638	53104	1 3/16	2 1/16	.95	.43
6-640	53078	1¼	2 1/16	1.1	.50
6-642	53079	1 5/16	2 3/16	1.2	.54
6-644	53080	1⅜	2 3/16	1.3	.59
6-646	53081	1 7/16	2 3/16	1.4	.64
6-648	53082	1½	2¼	1.5	.68
6-652	53083	1⅝	2¼	1.7	.77
6-654	53084	1 11/16	2 7/16	1.7	.77

Retainer Pins and O-Rings Are Required on All ¾", 1", 1½", and 2½" Drive Impact Sockets. Refer To Page 77 For Proper Pin and O-Ring Selection.

Williams
¾" Drive Long Length Impact Sockets
6 Point
Black Finish

Fed. Spec.: GGG-W-660A, Type I, Class 1, Style B; ANSI B107.2, Class 1, Style B



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
16-624	53287	¾	3 9/16	1.3	.59
16-626	53288	13/16	3 9/16	1.3	.59
16-628	53289	⅞	3 9/16	1.4	.64
16-630	53290	15/16	3 9/16	1.4	.64
16-632	53260	1	3 9/16	1.3	.59
16-634	53291	1 1/16	3 9/16	1.3	.59
16-636	53292	1⅛	3 9/16	1.4	.64
16-638	53049	1 3/16	3 9/16	1.5	.68
16-640	53293	1¼	3 9/16	1.9	.86
16-642	53178	1 5/16	3 9/16	1.9	.86
16-644	52112	1⅜	3 9/16	2.1	.95
16-646	53180	1 7/16	3 9/16	2.3	1.0
16-648	53179	1½	3 9/16	2.3	1.0
16-652	53177	1⅝	3 9/16	1.7	.77

Williams
1" Drive Impact Tool Accessories
Black Finish

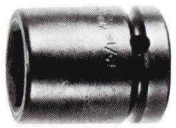
Fed. Spec.: GGG-W-660A, Type III, Adapter; GGG-W-660A, Type II, Extension; GGG-W-660A, Type IV, Universal Joint

Catalog Number	EDP Number	Description	Square Female	Square Male	Length	Weight Lbs.	Kg.
7-6	53191	Adapter	1	¾	2¾	1.8	.82
7-8	53192	Adapter	1	1½	2⅞	4.0	1.8
7-107	53186	Extension	1	1	6⅞	3.6	1.6
7-140	52150	Universal Joint, O.D. 2⅜" range 55°	1	1	2⅛	2.9	1.3
8-7	53193	Adapter	1½	1	3¾	9.0	4.1

Williams
1" Drive Regular Length Impact Sockets
6 Point
Black Finish

Fed. Spec.: GGG-W-660A, Type I, Class 1, Style A; ANSI B-107.2, Class 1, Style A

Fully hardened and heat-treated for repeated use on the toughest applications. Ideally suited for mines and off highway equipment. Sockets marked* are non-stock, available on special order only.

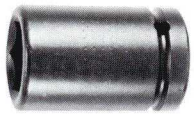


Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
7-624	53208	3/4	2 3/16	1.1	.50
7-626	53209	13/16	2 3/16	1.1	.50
7-628	53210	7/8	2 3/16	1.2	.54
7-630	53211	15/16	2 3/16	1.2	.54
7-632	53087	1	2 1/4	1.3	.59
7-634	53088	1 1/16	2 1/4	1.2	.54
7-636	53089	1 1/8	2 1/4	1.5	.68
7-638	55064	1 3/16	2 1/4	1.5	.68
7-640	53090	1 1/4	2 1/4	1.5	.68
7-642	53091	1 5/16	2 5/16	1.6	.73
7-644	53092	1 3/8	2 5/16	1.3	.59
7-646	53093	1 7/16	2 5/16	1.8	.82
7-648	53094	1 1/2	2 7/16	1.9	.86
7-650	55065	1 9/16	2 7/16	2.0	.91
7-652	53095	1 5/8	2 7/16	2.0	.91
7-654	53096	1 11/16	2 5/8	1.8	.82
7-656	55076	1 3/4	2 11/16	2.3	1.0
7-658	53097	1 13/16	2 11/16	2.4	1.1
7-660	53098	1 7/8	2 3/4	2.0	.91
7-662	55231	1 15/16	2 3/4	2.8	1.3
7-664	53099	2	2 3/4	2.4	1.1
7-666	53100	2 1/16	2 15/16	2.3	1.0
7-668	55303	2 1/4	2 15/16	3.6	1.6
7-670	53101	2 3/16	3 1/16	3.8	1.7
7-672	53102	2 1/4	3 1/16	3.8	1.7
7-674	55304	2 5/16	3 1/8	4.3	2.0
7-676	55066	2 3/8	3 9/16	4.5	2.0
7-678	55305	2 7/16	3 9/16	4.5	2.0
7-680	55232	2 1/2	3 9/16	5.0	2.3
7-682	55228	2 9/16	3 9/16	5.4	2.5
7-684	55233	2 5/8	3 5/8	5.4	2.5
7-686	55306	2 11/16	3 11/16	5.8	2.6
7-688	55225	2 3/4	3 3/4	5.4	2.5
7-690	55307	2 13/16	3 3/4	6.4	2.9
7-692	55308	2 7/8	3 3/4	5.9	2.7
7-694	55309	2 15/16	3 3/4	6.5	3.0
7-696	55310	3	3 3/4	7.1	3.2
7-6100	55311	3 1/8	3 3/4	7.5	3.4
7-6104	55312	3 1/4	3 15/16	7.5	3.4
7-6108	55313	3 3/8	4 1/16	8.6	3.9
7-6112	55314	3 1/2	4 1/16	8.9	4.0
7-6116	55315	3 5/8	4 1/16	9.9	4.5
7-6118	*54276	3 11/16	4 1/16	12.9	5.9
7-6120	55090	3 3/4	4 3/8	12.6	5.7
7-6122	*55137	3 13/16	4 3/8	12.2	5.5
7-6124	55100	3 7/8	4 3/8	11.8	5.4
7-6126	*55125	3 15/16	4 3/8	14.6	6.6
7-6128	55124	4	4 3/8	14.1	6.4
7-6130	*54248	4 1/16	4 3/8	16.1	7.3
7-6132	54252	4 1/8	4 3/8	15.7	7.1
7-6134	*54277	4 3/16	4 3/8	19.7	8.9
7-6136	55101	4 1/4	4 11/16	19.2	8.7
7-6138	*54278	4 5/16	4 11/16	18.7	8.5
7-6140	*54279	4 3/8	4 11/16	18.2	8.3
7-6142	*54335	4 7/16	4 11/16	17.7	8.0
7-6144	55095	4 1/2	4 11/16	21.7	9.8
7-6146	*54280	4 9/16	5 3/4	24.4	11.1
7-6148	55102	4 5/8	5 3/4	23.8	10.8
7-6152	*54281	4 3/4	5 3/4	26.0	11.8
7-6156	*54282	4 7/8	6 1/4	31.1	14.1
7-6160	*54283	5	6 1/4	33.7	15.3
7-6172	*54284	5 3/8	6 1/2	39.5	17.9
7-6184	*54285	5 3/4	6 1/2	44.2	20.1

Williams
1" Drive Long Length Impact Sockets
6 Point
Black Finish

Fed. Spec.: GGG-W-660A, Type I, Class 1, Style B; ANSI B107.2, Class 1, Style B

A complete offering of sizes for versatility and long stem bolts. Sockets marked* are non-stock, available on special order only.



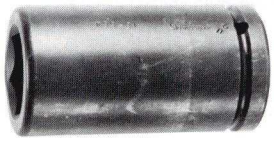
Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
17-634	55167	1 1/16	3 15/16	1.8	.82
17-636	55229	1 1/8	3 15/16	2.0	.91
17-640	55269	1 1/4	3 15/16	1.9	.86
17-642	55230	1 5/16	3 15/16	2.1	.95
17-644	55270	1 3/8	3 15/16	2.5	1.1
17-646	55271	1 7/16	3 15/16	2.5	1.1
17-648	55227	1 1/2	3 15/16	2.5	1.1
17-652	55077	1 5/8	3 15/16	2.8	1.3
17-654	55273	1 11/16	3 15/16	3.0	1.4
17-656	55274	1 3/4	3 15/16	3.0	1.4
17-658	55275	1 13/16	3 15/16	3.4	1.5
17-660	55276	1 7/8	3 15/16	3.5	1.6
17-662	55277	1 15/16	3 15/16	3.9	1.8
17-664	55278	2	3 15/16	4.1	1.9
17-666	55279	2 1/16	4 1/16	4.0	1.8
17-668	55280	2 1/8	4 1/16	4.8	2.2
17-670	55281	2 3/16	4 3/16	5.0	2.3
17-672	55282	2 1/4	4 3/16	5.4	2.5
17-674	55283	2 5/16	4 5/16	5.8	2.6
17-676	55078	2 3/8	4 11/16	6.1	2.8
17-678	55088	2 7/16	4 11/16	7.7	3.5
17-680	55099	2 1/2	4 11/16	7.5	3.4
17-682	*55133	2 9/16	4 11/16	8.0	3.6
17-684	55106	2 5/8	4 13/16	8.0	3.6
17-686	*54297	2 11/16	4 13/16	8.5	3.9
17-688	55108	2 3/4	4 7/8	8.2	3.7
17-690	*54298	2 13/16	4 7/8	7.7	3.5
17-692	55136	2 7/8	4 7/8	7.4	3.4
17-694	55097	2 15/16	4 7/8	10.2	4.6
17-696	55098	3	4 15/16	10.4	4.7
17-6100	55096	3 1/8	4 15/16	11.7	5.3
17-6104	55135	3 1/4	5 1/16	11.0	5.0
17-6108	54255	3 3/8	5 3/16	13.2	6.0
17-6112	55104	3 1/2	5 3/16	12.4	5.6
17-6116	*55105	3 5/8	5 3/16	13.9	6.3
17-6118	*54332	3 11/16	5 3/16	15.7	7.1
17-6120	54253	3 3/4	5 1/2	15.2	6.9
17-6122	54299	3 13/16	5 1/2	14.8	6.7
17-6124	54263	3 7/8	5 1/2	15.6	7.1
17-6126	54265	3 15/16	5 1/2	17.9	8.1
17-6128	54268	4	5 1/2	17.3	7.9
17-6130	*54300	4 1/16	5 1/2	19.9	9.0
17-6132	*54301	4 1/8	5 1/2	21.5	9.8
17-6134	*54333	4 3/16	5 1/2	24.3	11.0
17-6136	*54270	4 1/4	5 7/8	23.7	10.8
17-6138	*54302	4 5/16	5 7/8	23.1	10.5
17-6140	*54303	4 3/8	5 7/8	22.4	10.2
17-6142	*54304	4 7/16	5 7/8	21.8	9.9
17-6144	*54305	4 1/2	5 7/8	26.8	12.2
17-6146	*54306	4 9/16	7 1/8	30.9	14.0
17-6148	*54264	4 5/8	7 1/8	30.1	13.7
17-6152	*54307	4 3/4	7 1/8	33.0	15.0
17-6156	*54308	4 7/8	7 5/8	38.7	17.6
17-6160	*54309	5	7 3/4	42.9	19.5
17-6172	*54310	5 3/8	8	50.0	22.7
17-6184	*54311	5 3/4	8	55.8	25.3

Williams
1½" Drive Long Length Impact Sockets

6 Point
Black Finish

ANSI B107.2, Class 1, Style B

Sockets marked * non-stock, available on special order.



Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
18-664	54260	2	5½	9.6	4.4
18-666	*54272	2 1/16	5½	11.0	5.0
18-668	*54259	2⅛	5½	10.8	4.9
18-670	55134	2 3/16	5½	10.5	4.8
18-672	*55109	2¼	5½	12.0	5.4
18-676	55121	2⅜	5½	12.4	5.6
18-678	*55127	2 7/16	5½	12.1	5.5
18-682	*54267	2 9/16	5½	13.0	5.9
18-684	55110	2⅝	5½	13.7	6.2
18-688	55116	2¾	5½	14.1	6.4
18-694	*55128	2 15/16	5½	16.6	7.5
18-696	55111	3	5½	16.2	7.4
18-6100	55117	3⅛	5½	18.6	8.4
18-6108	*55112	3⅜	5½	19.7	8.9
18-6112	55131	3½	5½	20.2	9.2
18-6116	*55129	3⅝	5½	25.9	11.8
18-6120	55113	3¾	5⅞	24.6	11.2
18-6124	55130	3⅞	5⅞	23.4	10.6
18-6128	*54258	4	5⅞	28.2	12.8
18-6132	*55114	4⅛	5⅞	26.7	12.1
18-6136	*54261	4¼	6 5/16	30.5	13.8
18-6140	*54262	4⅜	6 5/16	28.8	13.1
18-6144	55115	4½	6 5/16	37.9	17.2
18-6148	*54313	4⅝	6 11/16	36.1	16.4
18-6152	*55132	4¾	6 11/16	40.1	18.2
18-6156	*54314	4⅞	6 11/16	44.4	20.1
18-6160	*54271	5	7 1/16	49.0	22.2
18-6172	*54315	5⅜	7¼	56.7	25.7
18-6184	*54316	5¾	9⅝	65.3	29.6
18-6196	*54317	6⅛	9⅞	74.8	33.9
18-6208	*54318	6½	10⅛	85.2	38.7
18-6220	*54319	6⅞	10¼	94.6	42.9
18-6232	*54320	7¼	10⅜	95.6	43.4
18-6244	*54321	7⅝	10⅝	117.5	53.3
18-6256	*54322	8	10⅞	120.0	54.4

Williams
1½" Drive Regular Length Impact Sockets

6 Point
Black Finish

Fed. Spec.: GGG-W-660A, Type I, Class 1, Style A; ANSI B107.2, Class 1, Style A

Sockets marked* non-stock, available on special order.

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
8-646	53212	1 7/16	3⅛	4.4	2.0
8-648	53107	1½	3⅛	4.4	2.0
8-652	53108	1⅝	3⅛	4.5	2.0
8-654	53109	1 11/16	3⅛	4.4	2.0
8-658	53110	1 13/16	3¼	5.0	2.3
8-660	53111	1⅞	3¼	4.4	2.0
8-664	53112	2	3¼	5.6	2.5
8-666	53213	2 1/16	3 7/16	6.6	3.0
8-668	53126	2⅛	3 7/16	6.6	3.0
8-670	53113	2 3/16	3 9/16	6.6	3.0
8-672	53114	2¼	3 9/16	6.6	3.0
8-676	53115	2⅜	3¾	7.6	3.5
8-678	53214	2 7/16	3¾	7.0	3.2
8-682	53116	2 9/16	3¾	7.9	3.6
8-684	53117	2⅝	3 15/16	8.3	3.8
8-688	53118	2¾	3 15/16	8.8	4.0
8-694	53119	2 15/16	4⅛	9.5	4.3
8-696	53120	3	4 5/16	9.5	4.3
8-6100	53121	3⅛	4 5/16	11.4	5.2
8-6108	53122	3⅜	4 11/16	11.0	5.0
8-6112	53123	3½	4 11/16	12.4	5.6
8-6116	55079	3⅝	4 11/16	16.2	7.3
8-6120	55080	3¾	4 15/16	15.5	7.0
8-6124	55081	3⅞	4 15/16	14.7	6.7
8-6128	55082	4	4 15/16	17.2	7.8
8-6132	55083	4⅛	4 15/16	16.4	7.4
8-6136	55084	4¼	5 5/16	20.0	9.1
8-6140	*54250	4⅜	5 5/16	19.0	8.6
8-6144	55094	4½	5 5/16	25.7	11.7
8-6148	55093	4⅝	5 11/16	24.5	11.1
8-6152	*55091	4¾	5 11/16	26.7	12.1
8-6156	54251	4⅞	5 11/16	31.8	14.4
8-6160	55092	5	5⅞	34.5	15.6
8-6172	55085	5⅜	6 5/16	40.2	18.2
8-6184	*54254	5¾	7	44.9	20.4
8-6196	*54242	6⅛	7¼	52.0	23.6
8-6208	*54243	6½	7½	59.7	27.1
8-6220	*54286	6⅞	7¾	68.0	30.8
8-6232	*54256	7¼	8	70.5	32.0
8-6244	*54287	7⅝	8¼	87.7	39.8
8-6256	*54288	8	8⅜	88.8	40.3

Williams
2½" Drive Regular Length Impact Sockets

6 Point
Black Finish

ANSI B107.2, Class 1, Style A

Sockets marked* non-stock, available on special order.

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
9-6110	*54289	3 7/16	5 3/16	20.0	9.1
9-6112	55118	3 1/2	5 3/16	20.1	9.1
9-6116	*55119	3 5/8	5 3/16	23.2	10.5
9-6120	54290	3 3/4	5 3/16	22.5	10.2
9-6124	55103	3 7/8	5 1/2	21.7	9.8
9-6128	54291	4	5 1/2	25.7	11.7
9-6132	54292	4 1/8	5 1/2	24.9	11.3
9-6136	54246	4 1/4	5 7/8	26.0	11.8
9-6140	*54293	4 3/8	5 7/8	27.8	12.6
9-6144	54266	4 1/2	5 7/8	31.7	14.4
9-6148	54249	4 5/8	6 3/16	30.5	13.8
9-6152	*55120	4 3/4	6 3/16	32.8	14.9
9-6156	*54247	4 7/8	6 3/16	37.8	17.1
9-6160	*55126	5	6 1/2	40.6	18.4
9-6172	55122	5 3/8	6 13/16	51.3	23.3
9-6184	*55107	5 3/4	7 3/16	58.6	26.6
9-6196	*55123	6 1/8	7 1/2	63.7	28.9
9-6208	*54294	6 1/2	8 1/8	72.2	32.7
9-6220	*55138	6 7/8	8 1/8	79.6	36.1
9-6232	*54244	7 1/4	8 7/16	84.0	38.1
9-6244	*54245	7 5/8	8 3/4	110.3	50.0
9-6256	*54295	8	9 3/8	103.3	46.9

Williams
2½" Drive Long Length Impact Sockets

6 Point
Black Finish

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
19-6110	54323	3 7/16	7 9/16	29.0	13.2
19-6112	54324	3 1/2	7 9/16	28.5	12.9
19-6116	54325	3 5/8	7 9/16	33.1	15.0
19-6120	54273	3 3/4	7 9/16	31.3	14.2
19-6124	54326	3 7/8	7 13/16	30.1	13.7
19-6128	54327	4	7 13/16	35.8	16.2
19-6132	54274	4 1/8	7 13/16	34.4	15.6
19-6136	54334	4 1/4	8 1/8	35.0	15.9
19-6140	54328	4 3/8	8 1/8	37.9	17.2
19-6144	54275	4 1/2	8 1/8	42.7	19.4
19-6148	54269	4 5/8	8 7/16	40.7	18.5
19-6152	54329	4 3/4	8 7/16	44.3	20.1
19-6156	54330	4 7/8	8 7/16	50.4	22.9
19-6160	54331	5	8 3/4	54.5	24.7

Williams
Retainer Pins and O-Rings for ¾" & Larger Drive Sizes

Pins and rings are packaged separately, 24 pieces per box. O-rings are made of material compounded for resistance to oils.

Catalog Number	EDP Number	Diam.	Length	Weight/ 24 Pcs. Lbs.	Kg.	For Use On
Retainer Pins						
6-2B	53144	3/16	1 1/4	.26	.12	¾": 6-620 thru 6-640, 6-424 thru 6-426, 6-828 thru 6-832, 16-624 thru 16-640
6-2C	53145	3/16	1 1/2	.36	.16	¾": 6-642 thru 6-654, 6-834 thru 6-840, 16-642 thru 16-652, ¾" Universal, ¾" Adapters, ¾" Extensions
7-2D	53146	3/16	1 7/8	.41	.19	1": 7-624 thru 7-6116, 7-426 thru 7-436, 17-634 thru 17-676, 1" Universal Joint, 1" Adapter, 1" Extension
7-2F	55358	3/16	2 7/8	.62	.28	1": 7-6118 thru 7-6184, 17-678 thru 17-6184
8-2E	53147	1/4	2 7/8	1.1	.50	1½": Fits all sizes.
9-2G	55359	5/16	4 1/2	2.5	1.1	2½": Fits all sizes.
O-Ring						
6-1A	55344	1 7/16		.08	.04	All ¾" Impact Sockets, ¾" Universal Joint, all ¾" Adapters, all ¾" Extensions
7-1B	55345	1 3/4		.22	.10	1": 7-624 thru 7-6116, 7-426 thru 7-436, 17-634 thru 17-676, 1" Universal Joint, 1" Adapter, 1" Extensions
8-1C	55268	2 7/8		.34	.15	1": 7-6118 thru 7-6184, 17-678 thru 17-6184; 1 ½": Fits all sizes.
9-1D	55360	4 1/8		.50	.23	2½": Fits all sizes.

Williams

Decimal & Millimeter Equivalents

Conversion Chart Showing Millimeter Sizes, Fractional and Decimal Inch Sizes

Metric Conversion Chart

Milli-Meter	Dec. Equiv.	Frac-tional	Milli-Meter	Dec. Equiv.	Frac-tional	Milli-Meter	Dec. Equiv.	Frac-tional	Milli-Meter	Dec. Equiv.	Frac-tional	Milli-Meter	Dec. Equiv.	Frac-tional
.1	.0039		1.75	.0679		—	.1570		6.8	.2677		10.72	.4219	27/64
.15	.0059		—	.0700		4.0	.1575		6.9	.2716		11.0	.4330	
.2	.0079		1.8	.0709		—	.1590		—	.2720		11.11	.4375	7/16
.25	.0098		1.85	.0728		—	.1610		7.0	.2766		11.5	.4528	
.3	.0118		—	.0730		4.1	.1614		—	.2770		11.51	.4531	29/64
—	.0315		1.9	.0748		4.2	.1654		7.1	.2795		11.91	.4687	15/32
.35	.0138		—	.0760		—	.1660		—	.2811		12.0	.4724	
—	.0145		1.95	.0767		4.25	.1673		7.14	.2812	9/32	12.30	.4843	31/64
.39	.0156	1/64	1.98	.0781	5/64	4.3	.1693		7.2	.2835		12.5	.4921	
.4	.0157		—	.0785		—	.1695		7.25	.2854		12.7	.5000	1/2
—	.0160		2.0	.0787		4.37	.1719	11/64	7.3	.2874		13.0	.5118	
.45	.0177		2.05	.0807		—	.1730		—	.2900		13.10	.5156	33/64
—	.0180		—	.0810		4.4	.1732		7.4	.2913		13.49	.5312	17/32
.5	.0197		—	.0820		—	.1770		—	.2950		13.5	.5315	
—	.0200		2.1	.0827		4.5	.1771		7.5	.2953		13.89	.5469	35/64
—	.0210		2.15	.0846		—	.1800		7.54	.2968	19/64	14.0	.5512	
.55	.0217		—	.0860		4.6	.1811		7.6	.2992		14.29	.5625	9/16
—	.0225		2.2	.0866		—	.1820		—	.3020		14.5	.5709	
.6	.0236		2.25	.0885		4.7	.1850		7.7	.3031		14.68	.5781	37/64
—	.0240		—	.0890		4.75	.1870		7.75	.3051		15.0	.5906	
—	.0250		2.3	.0905		4.76	.1875	3/16	7.8	.3071		15.08	.5937	19/32
.65	.0256		2.35	.0925		4.8	.1890		7.9	.3110		15.48	.6094	39/64
—	.0260		—	.0935		—	.1910		7.94	.3125	5/16	15.5	.6102	
—	.0280		2.38	.0937	3/32	4.9	.1929		8.0	.3150		15.88	.6250	5/8
.7	.0276		2.4	.0945		—	.1935		—	.3160		16.0	.6299	
—	.0292		—	.0960		—	.1960		8.1	.3189		16.27	.6406	41/64
.75	.0295		2.45	.0964		5.0	.1968		8.2	.3228		16.5	.6496	
—	.0310		—	.0980		—	.1990		—	.3230		16.67	.6562	21/32
.79	.0312	1/32	2.5	.0984		5.1	.2008		8.25	.3248		17.0	.6693	
.8	.0315		—	.0995		—	.2010		8.3	.3268		17.06	.6719	43/64
—	.0320		—	.1015		5.16	.2031	13/64	8.33	.3281	21/64	17.46	.6875	11/16
—	.0330		2.6	.1024		—	.2040		8.4	.3307		17.5	.6890	
.85	.0335		—	.1040		5.2	.2047		—	.3320		17.86	.7031	45/64
—	.0350		2.7	.1603		—	.2055		8.5	.3346		18.0	.7087	
.9	.0354		—	.1065		5.25	.2067		8.6	.3386		18.26	.7187	23/32
—	.0360		2.75	.1082		5.3	.2086		—	.3390		18.5	.7283	
—	.0370		2.78	.1094	7/64	—	.2090		8.7	.3425		18.65	.7344	47/64
.95	.0374		—	.1100		5.4	.2126		8.73	.3437	11/32	19.0	.7480	
—	.0380		2.8	.1102		—	.2130		8.75	.3445		19.05	.7500	3/4
—	.0390		—	.1110		5.5	.2165		8.8	.3465		19.45	.7656	49/64
1.0	.0394		—	.1130		5.56	.2187	7/32	—	.3480		19.5	.7677	
—	.0400		2.9	.1141		5.6	.2205		8.9	.3504		19.84	.7812	25/32
—	.0410		—	.1160		—	.2210		9.0	.3543		20.0	.7874	
1.05	.0413		3.0	.1181		5.7	.2244		—	.3580		20.24	.7969	51/64
—	.0420		—	.1200		5.75	.2263		9.1	.3583		20.5	.8071	
—	.0430		3.1	.1220		—	.2280		9.13	.3594	23/64	20.64	.8125	13/16
1.1	.0433		3.18	.1250	1/8	5.8	.2283		9.2	.3622		21.0	.8268	
1.15	.0452		3.2	.1260		5.9	.2323		9.25	.3641		21.03	.8281	53/64
—	.0465		3.25	.1279		—	.2340		9.3	.3661		21.43	.8437	27/32
1.19	.0469	3/64	—	.1285		5.95	.2344	15/64	—	.3680		21.5	.8465	
1.2	.0472		3.3	.1299		6.0	.2362		9.4	.3701		21.83	.8594	55/64
1.25	.0492		3.4	.1338		—	.2380		9.5	.3740		22.0	.8661	
1.3	.0512		—	.1360		6.1	.2401		9.53	.3750	3/8	22.23	.8750	7/8
—	.0520		3.5	.1378		—	.2420		—	.3770		22.5	.8858	
1.35	.0531		—	.1405		6.2	.2441		9.6	.3780		22.62	.8906	57/64
—	.0550		3.57	.1406	9/64	6.25	.2460		9.7	.3819		23.0	.9055	
1.4	.0551		3.6	.1417		6.3	.2480		9.75	.3838		23.02	.9062	29/32
1.45	.0570		—	.1440		6.35	.2500	1/4	9.8	.3858		23.42	.9219	59/64
1.5	.0591		3.7	.1457		6.4	.2520		—	.3860		23.5	.9252	
—	.0595		—	.1470		6.5	.2559		9.9	.3898		23.81	.9375	15/16
1.55	.0610		3.75	.1476		—	.2570		9.92	.3906	25/64	24.0	.9449	
1.59	.0625	1/16	—	.1495		6.6	.2598		10.0	.3937		24.21	.9531	61/64
1.6	.0629		3.8	.1496		—	.2610		—	.3970		24.5	.9646	
—	.0635		—	.1520		6.7	.2638		—	.4040		24.61	.9687	31/32
1.65	.0649		3.9	.1535		6.75	.2656	17/64	10.32	.4062	13/32	25.0	.9843	
1.7	.0669		—	.1540		6.75	.2657		—	.4130		25.03	.9844	63/64
—	.0670		3.97	.1562	5/32	—	.2660		10.5	.4134		25.4	1.0000	1

Williams®

Section 7

Metric Tools

Williams metric tool line and sets include a full range of types and sizes required by the industrial mechanic.

With a full range of opening sizes, Williams sockets can service fasteners from 4mm to 60mm (impact sockets up to 43mm). Flat wrenches cover from 5mm to 36mm.

Metric sockets are available in drive sizes from ¼" to ¾".

Striking Face wrenches have openings up to 117mm.

In addition to sockets and flat wrenches, the Williams metric line also contains other specialized tools required by the industrial mechanic. Metric industrial sets are also included in this section.

Refer to page 121 for product specifications.

Use of the right quality Williams tools will help perform jobs professionally and safely.

Conversion Chart For Metric Socket Openings To Decimal And Fractional Sizes On Page 78.

Williams has established a Custom Set Department dedicated to the make-up of tool sets to meet competitive or special purpose requirements. For a quick response, direct your inquiry or set specifications to our Customer Service Department.

Williams

Metric Combination Wrenches

Open End and 15° Offset Box Opening
12 Point Box
Chrome Finish

A highly versatile general purpose wrench offered in a wide range of opening sizes from 7mm to 36mm. Same opening size in each end.

Catalog Number	Openings mm	EDP Number	Length	Weight Lbs.	Kg.
XOEM-7	7	43043	5	.05	.02
XOEM-8	8	40674	5½	.06	.03
XOEM-9	9	40675	5½	.06	.03
XOEM-10	10	40676	6	.08	.04
XOEM-11	11	40677	6⅝	.13	.06
XOEM-12	12	40678	7 3/16	.16	.07
XOEM-13	13	40679	7 3/16	.16	.07
XOEM-14	14	40680	7 15/16	.21	.10
XOEM-15	15	40681	8¾	.29	.13
XOEM-16	16	40682	8¾	.29	.13
XOEM-17	17	40683	9⅝	.35	.16
XOEM-18	18	40684	9⅝	.35	.16
XOEM-19	19	40685	10⅝	.46	.21
XOEM-20	20	43035	11 9/16	.58	.26
XOEM-21	21	43036	11 9/16	.58	.26
XOEM-22	22	43037	12 11/16	.69	.31
XOEM-23	23	43038	13⅞	.85	.39
XOEM-24	24	43039	13⅞	.85	.39
XOEM-25	25	43040	15⅛	1.0	.45
XOEM-27	27	43041	16¼	1.3	.59
XOEM-30	30	43044	18 11/16	1.8	.82
XOEM-32	32	43042	18 11/16	1.9	.86
XOEM-34	34	43045	20	2.2	1.0
XOEM-36	36	43046	21 5/16	3.1	1.4

Williams

Metric Combination Wrench Sets

Open End and 15° Offset Box Opening
12 Point Box

Set Cat. No. MWS-1 5 Tools and Roll R-2
EDP No. 49225 Weight .43 Lbs. – .20 Kg.

Number	Openings	Length
XOEM-7	7 mm	5
XOEM-8	8 mm	5½
XOEM-9	9 mm	5½
XOEM-10	10 mm	6
XOEM-11	11 mm	6⅝

Set Cat. No. MWS-1T 5 Tools EDP No. 49223

Set Cat. No. MWS-2 5 Tools and Roll R-3
EDP No. 49230 Weight 1.7 Lbs. – .73 Kg.

Number	Openings	Length
XOEM-12	12 mm	7 3/16
XOEM-13	13 mm	7 3/16
XOEM-14	14 mm	7 15/16
XOEM-15	15 mm	8¾
XOEM-17	17 mm	9⅝

Set Cat. No. MWS-2T 5 Tools EDP No. 49228

Set Cat. No. MWS-5 10 Tools listed in MWS-1T and MWS-2T **and Roll R-20**
EDP No. 49244 Weight 2.2 Lbs. – 1.0 Kg.

Set Cat. No. MWS-5T 10 Tools
EDP No. 49242

Set Cat. No. MWS-3 5 Tools and Roll R-5
EDP No. 49235 Weight 4.7 Lbs. – 2.1 Kg.

Number	Openings	Length
XOEM-18	18 mm	9⅝
XOEM-19	19 mm	10⅝
XOEM-21	21 mm	11 9/16
XOEM-22	22 mm	12 11/16
XOEM-24	24 mm	13⅞

Set Cat. No. MWS-3T 5 Tools EDP No. 49233

Set Cat. No. MWS-4 5 Tools and Roll R-7
EDP No. 49240 Weight 12.0 Lbs. – 5.4 Kg.

Number	Openings	Length
XOEM-27	27 mm	16¼
XOEM-30	30 mm	18 11/16
XOEM-32	32 mm	18 11/16
XOEM-34	34 mm	20
XOEM-36	36 mm	21 5/16

Set Cat No. MWS-4T 5 Tools EDP No. 49238

Set Cat No. MWS-6 10 Tools listed in Sets MWS-3T and MWS-4T **and Roll R-13**
EDP No. 49248 Weight 16.9 Lbs. – 7.6 Kg.

Set Cat. No. MWS-6T 10 Tools EDP No. 49246

Williams

Metric Open End Wrenches

Double Head Open End, 15° Angle
Chrome Finish

Catalog Number	Openings mm	EDP Number	Length	Weight Lbs.	Kg.
EWM-0607	6 x 7	41415	4½	.03	.01
EWM-0809	8 x 9	41416	4½	.04	.02
EWM-1011	11 x 11	41419	4⅞	.06	.03
EWM-1213	12 x 13	41431	5¾	.13	.06
EWM-1415	14 x 15	41432	6⅛	.19	.09
EWM-1617	16 x 17	41433	7½	.27	.12
EWM-1819	18 x 19	41434	9⅜	.50	.23
EWM-2122	21 x 22	41435	9⅝	.50	.23
EWM-2427	24 x 27	41436	10⅝	.75	.34
EWM-3032	30 x 32	41437	13¾	1.6	.73

Williams

Metric Open End Wrench Sets

Double Head Open End, 15° Angle

Set Cat. No. MWS-20 5 Tools and Roll R-3
EDP No. 49642 Weight .68 Lbs. – .31 Kg.

Number	Openings	Length
EWM-0607	6 x 7 mm	4½
EWM-0809	8 x 9 mm	4½
EWM-1011	10 x 11 mm	4⅞
EWM-1213	12 x 13 mm	5¾
EWM-1415	14 x 15 mm	6⅛

Set Cat. No. MWS-20T 5 Tools EDP No. 49640

Set Cat. No. MWS-21 5 Tools and Roll R-5
EDP No. 49654 Weight 3.9 Lbs. – 1.7 Kg.

Number	Openings	Length
EWM-1617	16 x 17 mm	7½
EWM-1819	18 x 19 mm	9⅜
EWM-2122	21 x 22 mm	9⅝
EWM-2427	24 x 27 mm	10⅝
EWM-3032	30 x 32 mm	13¾

Set Cat. No. MWS-21T 5 Tools EDP No. 49652

Set Cat. No. MWS-22 10 Tools listed in Sets MWS-20T and MWS-21T **and Roll R-11**
EDP No. 49661 Weight 5.0 Lbs. – 2.2 Kg.

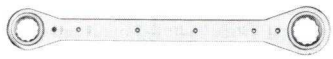
Set Cat. No. MWS-22T 10 Tools EDP No. 49659

Williams

Metric Ratcheting Box Wrenches

6 and 12 Point Box
Chrome Finish

All critical parts are heat-treated for lasting service and safety.



Catalog Number	Openings mm	EDP Number	Length	Weight Lbs.	Kg.
RBM-0708	7x8*	97376	4¼	.13	.06
RBM-0910	9x10*	97377	5½	.19	.09
RBM-1112	11x12*	97378	6¾	.42	.19
RBM-1314	13x14*	97379	6¾	.42	.19
RBM-1517	15x17	97380	8	.67	.30
RBM-1618	16x18	97381	8	.67	.30
RBM-1921	19x21	97383	9¼	.75	.34

*6 Point Openings

Williams

Metric Ratcheting Box Wrench Sets

6 and 12 Point Box

Set Cat. No. MWS-30 5 Tools and Roll R-3
EDP No. 49565 Weight 3.5 Lbs. – 1.5 Kg.

Number	Openings	Length
RBM-0708	7x8 mm*	4¼
RBM-0910	9x10 mm*	5½
RBM-1112	11x12 mm*	6¾
RBM-1314	13x14 mm*	6¾
RBM-1517	15x17 mm	8

*6 Point Openings

Set Cat. No. MWS-30T 5 Tools EDP No. 49563

Williams

Metric Striking Face Wrenches

Straight Pattern
12 Point Box
Black Finish

Drop forged and fully heat-treated for maximum strength and safety. Use wherever clearance permits. Striking pad proportioned to each size.

Catalog Number	Opening mm	EDP Number	Length	Weight Lbs.	Kg.
SFH-1808B	30	41228	7	1.4	.64
SFH-1808	32	40759	7	1.4	.64
SFH-1808A	33	40760	7	1.4	.64
SFH-1809B	36	41225	8¼	2.1	.95
SFH-1809A	38	40762	8¼	2.1	.95
SFH-1810	41	40763	9	3.0	1.4
SFH-1810A	43	40764	9	3.0	1.4
SFH-1811	46	40765	10	3.9	1.8
SFH-1812B	50	41226	11	5.5	2.5
SFH-1812	51	40767	11	5.5	2.5
SFH-1813	55	40768	11	5.5	2.5
SFH-1813A	57	40769	11	5.5	4.1
SFH-1814	60	40770	13	9.1	4.1
SFH-1815	65	40771	13	9.1	4.1
SFH-1815A	67	40772	13	9.1	4.1
SFH-1816	70	40773	15½	14.6	6.6
SFH-1816B	75	41227	15½	14.6	6.6
SFH-1817A	76	40775	15½	14.6	6.6
SFH-1817	80	40774	15½	14.6	6.6
SFH-1818A	85	40777	17¼	18.9	8.6
SFH-1818	89	40776	17¼	18.9	8.6
SFH-1819B	95	40780	18	23.1	10.5
SFH-1819	98	40778	18	23.1	10.5
SFH-1819C	105	40781	19	27.7	12.6
SFH-1819A	108	40779	19	27.7	12.6
SFH-1820B	114	40783	20	34.1	15.5
SFH-1820	117	40782	20	34.1	15.5

Williams

Metric Striking Face Wrenches

Offset Pattern
12 Point Box
Black Finish

Handle is offset close to head for maximum clearance. Striking pad proportioned to each size.

Catalog Number	Opening mm	EDP Number	Length	Weight Lbs.	Kg.
8807	27	41126	10	2.1	.95
8808B	30	41222	11	2.5	1.1
8808	32	41128	11	2.5	1.1
8808A	33	41129	11	2.5	1.1
8809B	36	41223	11½	3.5	1.6
8809A	38	41131	11½	3.5	1.6
8810	41	41132	12	4.5	2.0
8810A	43	41133	12	4.5	2.0
8811B	44	41146	12½	5.8	2.6
8811	46	41134	12½	5.8	2.6
8812B	50	41224	13½	6.8	3.1
8812	51	41136	13½	6.8	3.1
8813B	54	41148	14⅜	8.8	4.0
8813	55	41137	14⅜	8.8	4.0
8813A	57	41138	14⅜	8.8	4.0
8814A	59	41149	14	9.7	4.4
8814	60	41139	14	9.7	4.4
8815B	64	41150	14½	10.4	4.7
8815	65	41140	14½	10.4	4.7
8815A	67	41141	14½	10.4	4.7
8816	70	41142	15	11.5	5.2
8816C	73	41151	16	15.0	6.8
8816B	75	41143	16	15.0	6.8
8817A	76	41145	16½	18.4	8.4
8817	80	41144	16½	17.8	8.1

Williams

Metric Flare Nut Wrenches

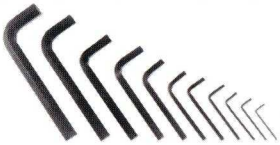
Double Split Box 15° Offset
6 Point Box
Chrome Finish

Catalog Number	Openings mm	EDP Number	Length	Weight Lbs.	Kg.
MFN-911	9x11	43055	6¼	.12	.05
MFN-1012	10x12	43056	6¼	.12	.05
MFN-1314	13x14	43057	7½	.25	.11
MFN-1517	15x17	43058	8½	.40	.18

Williams

Metric Socket Head Screw Key Sets

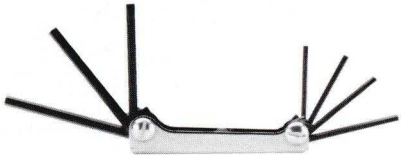
Set Cat. No. MWS-27 11 Keys in Plastic Roll
EDP No. 99953 Weight 2.3 Lbs. – 1.0 Kg.



Size	Length
2 mm	1 15/16
2.5 mm	2 1/32
3 mm	2 3/8
4 mm	2 13/16
5 mm	3 1/16
6 mm	3 9/32

Size	Length
8 mm	4 1/16
10 mm	4 7/32
12 mm	5 3/16
14 mm	5 3/4
17 mm	6 5/16

Set Cat. No. MWS-47 7 Keys in Metal Handle
EDP No. 97388 Weight .31 Lbs. – .14 Kg.



Size	Length
1.5 mm	1 3/8
2 mm	1 1/2
2.5 mm	1 5/8
3 mm	1 3/4

Size	Length
4 mm	2
5 mm	2 1/4
6 mm	2 1/2

Williams

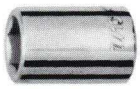
¼" Drive Tools For Metric Sockets

See page 42 for a full selection of Williams ¼" drive tools.

Williams

¼" Drive Metric Regular Length Hand Sockets

6 Point
Chrome Finish



These are precision extruded, machined, and heat-treated for maximum strength and service.

Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Kg.
MM-604	50848	4	29/32	.01	.005
MM-605	50849	5	29/32	.01	.005
MM-605.5	50850	5.5	29/32	.01	.005
MM-606	50851	6	29/32	.02	.009
MM-607	50852	7	29/32	.02	.009
MM-608	50853	8	15/16	.02	.009
MM-609	50854	9	15/16	.02	.009
MM-610	50855	10	15/16	.03	.014
MM-611	50856	11	15/16	.03	.014
MM-612	50857	12	15/16	.04	.018
MM-613	50858	13	15/16	.05	.023
MM-614	50859	14	15/16	.05	.023

Williams

¼" Drive Metric Regular Length Hand Socket Set

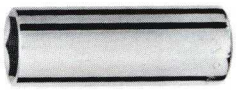
6 Point

Set Cat. No. MSM-12HT 12 Sockets
EDP No. 92056 Weight .76 Lbs. – .35 Kg.

Number	Description
MM-604	4 mm 6 Pt Skt
MM-605	5 mm 6 Pt Skt
MM-605.5	5.5 mm 6 Pt Skt
MM-606	6 mm 6 Pt Skt
MM-607	7 mm 6 Pt Skt
MM-608	8mm 6 Pt Skt

Number	Description
MM-609	9 mm 6 Pt Skt
MM-610	10 mm 6 Pt Skt
MM-611	11 mm 6 Pt Skt
MM-612	12 mm 6 Pt Skt
MM-613	13 mm 6 Pt Skt
MM-614	14 mm 6 Pt Skt

Williams
1/4" Drive Metric Long Length Hand Sockets
6 Point
Chrome Finish



Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Weight Kg.
MMD-604	50864	4	2	.03	.005
MMD-605	50865	5	2	.03	.005
MMD-605.5	50866	5.5	2	.03	.005
MMD-606	50867	6	2	.03	.005
MMD-607	50868	7	2	.04	.018
MMD-608	50869	8	2	.04	.018
MMD-609	50870	9	2	.06	.027
MMD-610	50871	10	2	.06	.027
MMD-611	50872	11	2	.08	.036
MMD-612	50873	12	2	.08	.036
MMD-613	50874	13	2	.09	.036
MMD-614	50875	14	2	.09	.036

Williams
1/4" Drive Metric Long Length Hand Socket Set
6 Point

Set Cat. No. MSMD-11HT 11 Sockets
EDP No. 92062 Weight .66 Lbs. – .30 Kg.

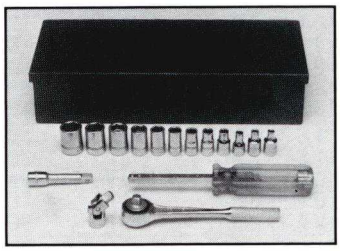
Number	Description
MMD-604	4 mm 6 Pt Dp Skt
MMD-605	5 mm 6 Pt Dp Skt
MMD-606	6 mm 6 Pt Dp Skt
MMD-607	7 mm 6 Pt Dp Skt
MMD-608	8 mm 6 Pt Dp Skt
MMD-609	9 mm 6 Pt Dp Skt

Number	Description
MMD-610	10 mm 6 Pt Dp Skt
MMD-611	11 mm 6 Pt Dp Skt
MMD-612	12 mm 6 Pt Dp Skt
MMD-613	13 mm 6 Pt Dp Skt
MMD-614	14 mm 6 Pt Dp Skt

Williams
1/4" Drive Metric Hand Socket and Drive Tool Sets

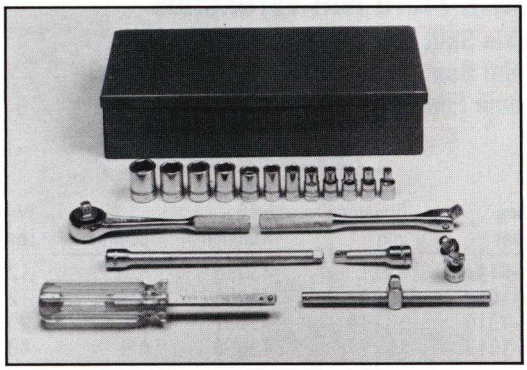
Set Cat. No. MSM-16H 16 Tools in TB-30
EDP No. 94224 Weight 3.1 Lbs. – 1.4 Kg.

Number	Description
M-52	Ratchet
M-106	Spinner Hdle
M-140A	Univ Joint
M-102	2" Extension
MM-604	4 mm 6 Pt Skt
MM-605	5 mm 6 Pt Skt
MM-605.5	5.5 mm 6 Pt Skt
MM-606	6 mm 6 Pt Skt
MM-607	7 mm 6 Pt Skt
MM-608	8 mm 6 Pt Skt
MM-609	9 mm 6 Pt Skt
MM-610	10 mm 6 Pt Skt
MM-611	11 mm 6 Pt Skt
MM-612	12 mm 6 Pt Skt
MM-613	13 mm 6 Pt Skt
MM-614	14 mm 6 Pt Skt



Set Cat. No. MSM-16HT 16 Tools
EDP No. 94222 Weight 1.2 Lbs. – .54 Kg.

Set Cat. No. MSM-19H 19 Tools in TB-30 Box
EDP No. 94229 Weight 5.5 Lbs. – 2.4 Kg.

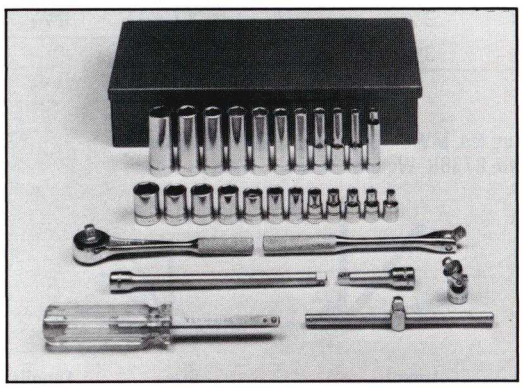


Number	Description
M-52	Ratchet
M-106	Spinner Hdle
M-140A	Univ.
M-102	2" Ext.
M-115	6" Ext.
M-42A	Flex Hdle
M-20A	Sliding T Hdle
MM-604	4 mm 6 Pt Skt
MM-605	5 mm 6 Pt Skt
MM-614	14 mm 6 Pt Skt

Number	Description
MM-605.5	5.5mm 6 Pt Skt
MM-606	6 mm 6 Pt Skt
MM-607	7 mm 6 Pt Skt
MM-608	8 mm 6 Pt Skt
MM-609	9 mm 6 Pt Skt
MM-610	10 mm 6 Pt Skt
MM-611	11 mm 6 Pt Skt
MM-612	12 mm 6 Pt Skt
MM-613	13 mm 6 Pt Skt

Set Cat. No. MSM-19HT 19 Tools
EDP No. 94227 Weight 3.6 Lbs. – 1.6 Kg.

Set Cat. No. MSM-30H 30 Tools in TB-30 Box
EDP No. 94234 Weight 6.2 Lbs. – 2.8 Kg.



Number	Description
M-52	Ratchet
M-106	Spinner
M-102	2" Ext.
M-115	6" Ext.
M-42A	Flex Hdle
M-20A	Sliding T Hdle
M-140A	Univ Joint
MM-604	4 mm 6 Pt Skt
MM-605	5 mm 6 Pt Skt
MM-605.5	5.5 mm 6 Pt Skt
MM-606	6 mm 6 Pt Skt
MM-607	7 mm 6 Pt Skt
MM-608	8 mm 6 Pt Skt
MM-609	9 mm 6 Pt Skt
MM-610	10 mm 6 Pt Skt

Number	Description
MM-611	11 mm 6 Pt Skt
MM-612	12 mm 6 Pt Skt
MM-613	13 mm 6 Pt Skt
MM-614	14 mm 6 Pt Skt
MMD-604	4 mm 6 Pt Dp Skt
MMD-605	5 mm 6 Pt Dp Skt
MMD-606	6 mm 6 Pt Dp Skt
MMD-607	7 mm 6 Pt Dp Skt
MMD-608	8 mm 6 Pt Dp Skt
MMD-609	9 mm 6 Pt Dp Skt
MMD-610	10 mm 6 Pt Dp Skt
MMD-611	11 mm 6 Pt Dp Skt
MMD-612	12 mm 6 Pt Dp Skt
MMD-613	13 mm 6 Pt Dp Skt
MMD-614	14 mm 6 Pt Dp Skt

Set Cat. No. MSM-30HT 30 Tools
EDP No. 94232 Weight 4.3 Lbs. – 1.9 Kg.

Williams

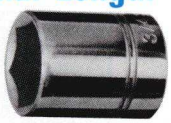
3/8" Drive Tools For Metric Sockets

See page 46 for a full selection of Williams 3/8" drive tools.

Williams

3/8" Drive Metric Regular Length Hand Sockets

6 Point
Chrome Finish



Designed for service on fasteners in worn or corroded condition.

Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Kg.
BM-606	51500	6	17/32	.05	.02
BM-607	51501	7	17/32	.05	.02
BM-608	51502	8	17/32	.05	.02
BM-609	51517	9	17/32	.05	.02
BM-610	51518	10	17/32	.05	.02
BM-611	51519	11	17/32	.06	.03
BM-612	51520	12	17/32	.05	.02
BM-613	51521	13	17/32	.07	.03
BM-614	51522	14	17/32	.09	.04
BM-615	51523	15	17/32	.09	.04
BM-616	51524	16	17/32	.09	.04
BM-617	51525	17	17/32	.11	.05
BM-618	51526	18	17/32	.11	.05
BM-619	51527	19	17/32	.15	.07

Williams

3/8" Drive Metric Regular Length Hand Socket Set

6 Point

Set Cat. No. MSB-14H 14 Tools in TB-10 Tray
EDP No. 92188 Weight 1.9 Lbs. – .86 Kg.

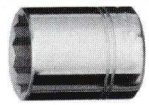
Number	Description	Number	Description
BM-606	6 mm 6 Pt Skt	BM-613	13 mm 6 Pt Skt
BM-607	7 mm 6 Pt Skt	BM-614	14 mm 6 Pt Skt
BM-608	8 mm 6 Pt Skt	BM-615	15 mm 6 Pt Skt
BM-609	9 mm 6 Pt Skt	BM-616	16 mm 6 Pt Skt
BM-610	10 mm 6 Pt Skt	BM-617	17 mm 6 Pt Skt
BM-611	11 mm 6 Pt Skt	BM-618	18 mm 6 Pt Skt
BM-612	12 mm 6 Pt Skt	BM-619	19 mm 6 Pt Skt

Set Cat. No. MSB-14HT 14 Tools
EDP No. 92187 Weight 1.1 Lbs. – .50 Kg.

Williams

3/8" Drive Metric Regular Length Hand Sockets

12 Point
Chrome Finish



Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Kg.
BM-1208	50754	8	17/32	.05	.02
BM-1209	50755	9	17/32	.05	.02
BM-1210	50756	10	17/32	.05	.02
BM-1211	50757	11	17/32	.05	.02
BM-1212	50758	12	17/32	.06	.03
BM-1213	50759	13	17/32	.06	.03
BM-1214	50760	14	17/32	.07	.03
BM-1215	50761	15	17/32	.08	.04
BM-1216	50762	16	17/32	.09	.04
BM-1217	50763	17	17/32	.11	.05
BM-1218	50764	18	17/32	.12	.05
BM-1219	50765	19	17/32	.13	.06
BM-1220	51510	20	17/32	.17	.08
BM-1221	51511	21	15/16	.17	.08
BM-1222	51512	22	15/16	.18	.08
BM-1224	51536	24	1 3/8	.19	.09

Williams

3/8" Drive Metric Regular Length Hand Socket Set

Set Cat. No. MSB-14 14 Sockets in TBT-10 Tray
EDP No. 92194 Weight 2.3 Lbs. – 1.1 Kg.

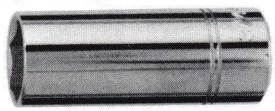
Number	Description	Number	Description
BM-1208	8 mm 12 Pt Skt	BM-1216	16 mm 12 Pt Skt
BM-1209	9 mm 12 Pt Skt	BM-1217	17 mm 12 Pt Skt
BM-1210	10 mm 12 Pt Skt	BM-1218	18 mm 12 Pt Skt
BM-1211	11 mm 12 Pt Skt	BM-1219	19 mm 12 Pt Skt
BM-1212	12 mm 12 Pt Skt	BM-1220	20 mm 12 Pt Skt
BM-1213	13 mm 12 Pt Skt	BM-1221	21 mm 12 Pt Skt
BM-1214	14 mm 12 Pt Skt	BM-1222	22 mm 12 Pt Skt

Set Cat. No. MSB-14T 14 Sockets
EDP No. 92192 Weight 1.5 Lbs. – .67 Kg.

Williams

3/8" Drive Metric Long Length Hand Sockets

6 Point
Chrome Finish



Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Kg.
BMD-608	51374	8	2	.09	.04
BMD-609	51378	9	2	.09	.04
BMD-610	51380	10	2	.09	.04
BMD-611	51381	11	2	.10	.05
BMD-612	51382	12	2	.10	.05
BMD-613	51383	13	2	.10	.05
BMD-614	51384	14	2	.13	.06
BMD-615	51385	15	2 1/4	.16	.07
BMD-616	51386	16	2 1/4	.16	.07
BMD-617	51387	17	2 3/8	.22	.10
BMD-618	51388	18	2 3/8	.22	.10
BMD-619	51389	19	2 1/2	.22	.10

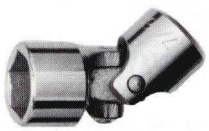
Williams
3/8" Drive Metric Long Length Hand Socket Set
6 Point

Set Cat. No. MSBD-12HT 12 Sockets
EDP No. 92197 Weight 1.7 Lbs. – .73 Kg.

Number	Description	Number	Description
BMD-608	8 mm 6 Pt Dp Skt	BMD-614	14 mm 6 Pt Dp Skt
BMD-609	9 mm 6 Pt Dp Skt	BMD-615	15 mm 6 Pt Dp Skt
BMD-610	10 mm 6 Pt Dp Skt	BMD-616	16 mm 6 Pt Dp Skt
BMD-611	11 mm 6 Pt Dp Skt	BMD-617	17 mm 6 Pt Dp Skt
BMD-612	12 mm 6 Pt Dp Skt	BMD-618	18 mm 6 Pt Dp Skt
BMD-613	13 mm 6 Pt Dp Skt	BMD-619	19 mm 6 Pt Dp Skt

Williams
3/8" Drive Metric Universal Hand Sockets
6 Point

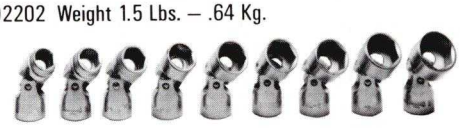
Williams metric universal sockets reach those fasteners when a regular socket does not.



Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Kg.
BMU-608	51413	8	1 25/32	.11	.05
BMU-609	51379	9	1 25/32	.11	.05
BMU-610	51390	10	1 25/32	.11	.05
BMU-611	51391	11	1 13/16	.11	.05
BMU-612	51392	12	1 27/32	.11	.05
BMU-613	51393	13	1 27/32	.11	.05
BMU-614	51394	14	1 57/64	.12	.05
BMU-615	51395	15	1 61/64	.13	.06
BMU-616	51416	16	1 61/64	.13	.06
BMU-617	51396	17	1 63/64	.13	.06
BMU-618	51412	18	2 1/64	.14	.06
BMU-619	51397	19	2 1/64	.15	.07

Williams
3/8" Drive Metric Universal Hand Socket Set
6 Point

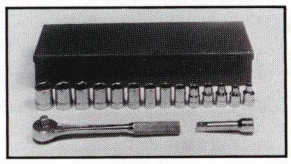
Set Cat. No. MSBU-12HT 9 Sockets
EDP No. 92202 Weight 1.5 Lbs. – .64 Kg.



Number	Description	Number	Description
BMU-608	8 mm Univ 6 Pt Skt	BMU-614	14 mm Univ 6 Pt Skt
BMU-609	9 mm Univ 6 Pt Skt	BMU-616	16 mm Univ 6 Pt Skt
BMU-611	11 mm Univ 6 Pt Skt	BMU-617	17 mm Univ 6 Pt Skt
BMU-612	12 mm Univ 6 Pt Skt	BMU-618	18 mm Univ 6 Pt Skt
BMU-613	13 mm Univ 6 Pt Skt		

Williams
3/8" Drive Metric Hand Socket and Drive Tool Sets

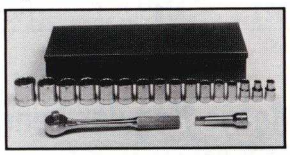
Set Cat. No. MSB-17 16 Tools in TB-31 Box
EDP No. 94244 Weight 5.5 Lbs. – 2.5 Kg.



Number	Description	Number	Description
B-52	Ratchet	BM-612	12 mm 6 Pt Skt
B-108	3" Extension	BM-613	13 mm 6 Pt Skt
BM-606	6 mm 6 Pt Skt	BM-614	14 mm 6 Pt Skt
BM-607	7 mm 6 Pt Skt	BM-615	15 mm 6 Pt Skt
BM-608	8 mm 6 Pt Skt	BM-616	16 mm 6 Pt Skt
BM-609	9 mm 6 Pt Skt	BM-617	17 mm 6 Pt Skt
BM-610	10 mm 6 Pt Skt	BM-618	18 mm 6 Pt Skt
BM-611	11 mm 6 Pt Skt	BM-619	19 mm 6 Pt Skt

Set Cat. No. MSB-17T 16 Tools
EDP No. 94242 Weight 3.5 Lbs. – 1.5 Kg.

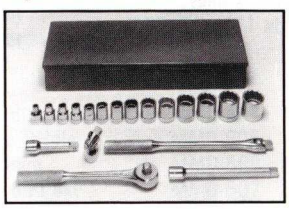
Set Cat. No. MSB-18 16 Tools in TB-31 Box
EDP No. 94249 Weight 5.5 Lbs. – 2.5 Kg.



Number	Description	Number	Description
B-52	Ratchet	BM-1214	12 mm 12 Pt Skt
B-108	3" Extension	BM-1216	16 mm 12 Pt Skt
BM-1208	8 mm 12 Pt Skt	BM-1217	17 mm 12 Pt Skt
BM-1209	9 mm 12 Pt Skt	BM-1218	18 mm 12 Pt Skt
BM-1210	10 mm 12 Pt Skt	BM-1220	20 mm 12 Pt Skt
BM-1211	11 mm 12 Pt Skt	BM-1221	21 mm 12 Pt Skt
BM-1212	12 mm 12 Pt Skt	BM-1222	22 mm 12 Pt Skt
BM-1213	13 mm 12 Pt Skt	BM-1224	24 mm 12 Pt Skt

Set Cat. No. MSB-18T 16 Tools
EDP No. 94247 Weight 3.5 Lbs. – 1.5 Kg.

Set Cat. No. MSB-19 19 Tools in TB-31 Box
EDP No. 94259 Weight 6.5 Lbs. – 2.9 Kg.



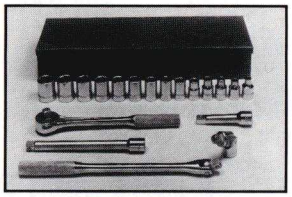
Number	Description	Number	Description
B-52	Ratchet	BM-1213	13 mm 12 Pt Skt
B-108	3" Extension	BM-1214	14 mm 12 Pt Skt
B-110	6" Extension	BM-1216	16 mm 12 Pt Skt
B-40A	Flex Hdle	BM-1217	17 mm 12 Pt Skt
B-140A	Universal	BM-1218	18 mm 12 Pt Skt
BM-1208	8 mm 12 Pt Skt	BM-1220	20 mm 12 Pt Skt
BM-1209	9 mm 12 Pt Skt	BM-1221	21 mm 12 Pt Skt
BM-1210	10 mm 12 Pt Skt	BM-1222	22 mm 12 Pt Skt
BM-1211	11 mm 12 Pt Skt	BM-1224	24 mm 12 Pt Skt
BM-1212	12 mm 12 Pt Skt		

Set Cat. No. MSB-19T 19 Tools
EDP No. 94257 Weight 4.5 Lbs. – 2.0 Kg.

Williams

3/8" Drive Metric Hand Socket and Drive Tool Sets

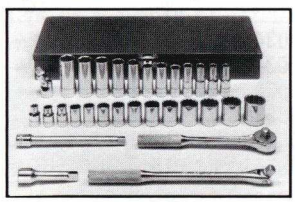
Set Cat. No. MSB-19H 19 Tools in TB-31 Box
EDP No. 94254 Weight 6.5 Lbs. – 3.0 Kg.



Number	Description	Number	Description
B-52	Ratchet	BM-611	11 mm 6 Pt Skt
B-108	3" Extension	BM-612	12 mm 6 Pt Skt
B-110	6" Extension	BM-613	13 mm 6 Pt Skt
B-40A	Flex Hdle	BM-614	14 mm 6 Pt Skt
B-140A	Univ Joint	BM-615	15 mm 6 Pt Skt
BM-606	6 mm 6 Pt Skt	BM-616	16 mm 6 Pt Skt
BM-607	7 mm 6 Pt Skt	BM-617	17 mm 6 Pt Skt
BM-608	8 mm 6 Pt Skt	BM-618	18 mm 6 Pt Skt
BM-609	9 mm 6 Pt Skt	BM-619	19 mm 6 Pt Skt
BM-610	10 mm 6 Pt Skt		

Set Cat. No. MSB-19HT 19 Tools
EDP No. 94252 Weight 4.5 Lbs. – 2.0 Kg.

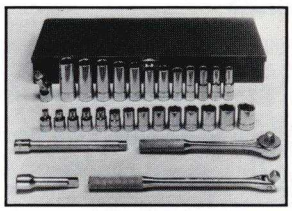
Set Cat. No. MSB-31 31 Tools in TB-4A Box
EDP No. 95002 Weight 8.8 Lbs. – 4.0 Kg.



Number	Description	Number	Description
B-52	Ratchet	BM-1208	8 mm 12 Pt Dp Skt
B-108	3" Extension	BM-1209	9 mm 12 Pt Dp Skt
B-110	6" Extension	BM-1210	10 mm 12 Pt Dp Skt
B-40A	Flex Hdle	BM-1211	11 mm 12 Pt Dp Skt
B-140A	Univ Joint	BM-1212	12 mm 12 Pt Dp Skt
BMD-608	8 mm 6 Pt Dp Skt	BM-1213	13 mm 12 Pt Dp Skt
BMD-609	9 mm 6 Pt Dp Skt	BM-1214	14 mm 12 Pt Skt
BMD-610	10 mm 6 Pt Dp Skt	BM-1215	15 mm 12 Pt Skt
BMD-611	11 mm 6 Pt Dp Skt	BM-1216	16 mm 12 Pt Skt
BMD-612	12 mm 6 Pt Dp Skt	BM-1217	17 mm 12 Pt Skt
BMD-613	13 mm 6 Pt Dp Skt	BM-1218	18 mm 12 Pt Skt
BMD-614	14 mm 6 Pt Dp Skt	BM-1220	20 mm 12 Pt Skt
BMD-615	15 mm 6 Pt Dp Skt	BM-1221	21 mm 12 Pt Skt
BMD-616	16 mm 6 Pt Dp Skt	BM-1222	22 mm 12 Pt Skt
BMD-617	17 mm 6 Pt Dp Skt	BM-1224	24 mm 12 Pt Skt
BMD-618	18 mm 6 Pt Dp Skt		

Set Cat. No. MSB-31T 31 Tools
EDP No. 94262 Weight 6.8 Lbs. – 3.0 Kg.

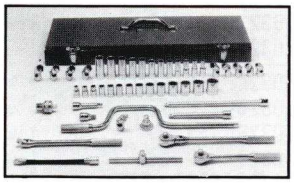
Set Cat. No. MSB-31H 31 Tools in TB-4A Box
EDP No. 95007 Weight 8.2 Lbs. – 3.7 Kg.



Number	Description	Number	Description
B-52	Ratchet	BM-617	17 mm 6 Pt Skt
B-108	3" Extension	BM-618	18 mm 6 Pt Skt
B-110	6" Extension	BM-619	19 mm 6 Pt Skt
B-40A	Flex Hdle	BMD-608	8 mm 6 Pt Dp Skt
B-140A	Univ Joint	BMD-609	9 mm 6 Pt Dp Skt
BM-606	6 mm 6 Pt Skt	BMD-610	10 mm 6 Pt Dp Skt
BM-607	7 mm 6 Pt Skt	BMD-611	11 mm 6 Pt Dp Skt
BM-608	8 mm 6 Pt Skt	BMD-612	12 mm 6 Pt Dp Skt
BM-609	9 mm 6 Pt Skt	BMD-613	13 mm 6 Pt Dp Skt
BM-610	10 mm 6 Pt Skt	BMD-614	14 mm 6 Pt Dp Skt
BM-611	11 mm 6 Pt Skt	BMD-615	15 mm 6 Pt Dp Skt
BM-612	12 mm 6 Pt Skt	BMD-616	16 mm 6 Pt Dp Skt
BM-613	13 mm 6 Pt Skt	BMD-617	17 mm 6 Pt Dp Skt
BM-614	14 mm 6 Pt Skt	BMD-618	18 mm 6 Pt Dp Skt
BM-615	15 mm 6 Pt Skt	BMD-619	19 mm 6 Pt Dp Skt
BM-616	16 mm 6 Pt Skt		

Set Cat. No. MSB-31HT 31 Tools
EDP No. 95005 Weight 6.2 Lbs. – 2.8 Kg.

Set Cat. No. MSB-48 48 Tools in TB-7 Box
EDP No. 95012 Weight 22.4 Lbs. – 10.2 Kg.



Number	Description	Number	Description
B-52	Ratchet	BMD-619	19 mm 6 Pt Dp Skt
B-101	1½" Extension	BMU-608	8 mm 6 Pt Univ Skt
B-108	3" Extension	BMU-609	9 mm 6 Pt Univ Skt
B-110	6" Extension	BMU-611	11 mm 6 Pt Univ Skt
B-115	10½" Extension	BMU-612	12 mm 6 Pt Univ Skt
B-40A	Flex Hdle	BMU-613	13 mm 6 Pt Univ Skt
B-140A	Univ Joint	BMU-614	14 mm 6 Pt Univ Skt
B-20A	Sliding T Hdle	BMU-616	16 mm 6 Pt Univ Skt
B-54	Flex Head Ratchet	BMU-617	15 mm 6 Pt Univ Skt
B-70	Ratchet Spinner	BMU-618	18 mm 6 Pt Univ Skt
B-15	Speeder	BM-1208	8 mm 12 Pt Skt
B-55	Ratchet Adapter	BM-1209	9 mm 12 Pt Skt
BFE-8	Flexible Ext.	BM-1210	10 mm 12 Pt Skt
BMD-608	8 mm 6 Pt Dp Skt	BM-1211	11 mm 12 Pt Skt
BMD-609	9 mm 6 Pt Dp Skt	BM-1212	12 mm 12 Pt Skt
BMD-610	10 mm 6 Pt Dp Skt	BM-1213	13 mm 12 Pt Skt
BMD-611	11 mm 6 Pt Dp Skt	BM-1214	14 mm 12 Pt Skt
BMD-612	12 mm 6 Pt Dp Skt	BM-1216	16 mm 12 Pt Skt
BMD-613	13 mm 6 Pt Dp Skt	BM-1217	17 mm 12 Pt Skt
BMD-614	14 mm 6 Pt Dp Skt	BM-1218	18 mm 12 Pt Skt
BMD-615	15 mm 6 Pt Dp Skt	BM-1220	20 mm 12 Pt Skt
BMD-616	16 mm 6 Pt Dp Skt	BM-1221	21 mm 12 Pt Skt
BMD-617	17 mm 6 Pt Dp Skt	BM-1222	22 mm 12 Pt Skt
BMD-618	18 mm 6 Pt Dp Skt	BM-1224	24 mm 12 Pt Skt

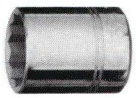
Set Cat. No. MSB-48T 48 Tools
EDP No. 95010 Weight 16.0 Lbs. – 7.3 Kg.

Williams
½" Drive Tools

See page 53 for a full selection of Williams ½" drive tools.

Williams
½" Drive Metric Regular Length Hand Sockets
12 Point
Chrome Finish

Available in a full range from 10mm to 36mm for a lifetime of performance.



Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Kg.
STM-1210	50309	10	1½	.11	.05
STM-1211	50310	11	1½	.11	.05
STM-1212	50311	12	1½	.11	.05
STM-1213	50312	13	1½	.11	.05
STM-1214	50313	14	1½	.11	.05
STM-1215	50314	15	1½	.13	.06
STM-1216	50315	16	1½	.13	.06
STM-1217	50316	17	1½	.14	.06
STM-1218	50317	18	1½	.17	.08
STM-1219	50318	19	1½	.17	.08
STM-1220	50319	20	1½	.19	.09
STM-1221	50320	21	1⅝	.23	.10
STM-1222	50321	22	1⅝	.27	.12
STM-1223	50322	23	1⅝	.28	.13
STM-1224	50323	24	1⅝	.28	.13
STM-1225	50324	25	1⅝	.33	.15
STM-1226	50325	26	1¾	.47	.21
STM-1227	50326	27	1¾	.47	.21
STM-1228	50327	28	1¾	.48	.22
STM-1229	50328	29	1¾	.52	.24
STM-1230	50329	30	1 29/32	.59	.27
STM-1232	50331	32	2	.69	.31
STM-1234	50333	34	2	.81	.37
STM-1236	50335	36	2	.92	.42

Williams
½" Drive Metric Regular Length
12 Point

Set Cat. No. MSS-13 13 Sockets in TBT-10 Tray
EDP No. 94112 Weight 2.8 Lbs. – 1.3 Kg.

Number	Description
STM-1210	10 mm 12 Pt Skt
STM-1211	11 mm 12 Pt Skt
STM-1212	12 mm 12 Pt Skt
STM-1213	13 mm 12 Pt Skt
STM-1214	14 mm 12 Pt Skt
STM-1215	15 mm 12 Pt Skt
STM-1216	16 mm 12 Pt Skt

Number	Description
STM-1217	17 mm 12 Pt Skt
STM-1218	18 mm 12 Pt Skt
STM-1219	19 mm 12 Pt Skt
STM-1220	20 mm 12 Pt Skt
STM-1221	21 mm 12 Pt Skt
STM-1222	22 mm 12 Pt Skt

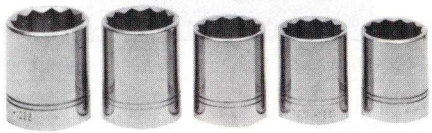
Set Cat. No. MSS-13T 13 Sockets
EDP No. 94110 Weight 2.0 Lbs. – .86 Kg.

Set Cat. No. MSS-6T 6 Sockets
EDP No. 94115 Weight 2.3 Lbs. – 1.0 Kg.

Number	Description
STM-1223	23 mm 12 Pt Skt
STM-1224	24 mm 12 Pt Skt
STM-1225	25 mm 12 Pt Skt

Number	Description
STM-1226	26 mm 12 Pt Skt
STM-1227	27 mm 12 Pt Skt
STM-1228	28 mm 12 Pt Skt

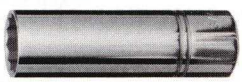
Set Cat. No. MSS-5T 5 Sockets
EDP No. 94118 Weight 3.5 Lbs. – 1.6 Kg.



Number	Description
STM-1229	29 mm 12 Pt Skt
STM-1230	30 mm 12 Pt Skt
STM-1232	32 mm 12 Pt Skt

Number	Description
STM-1234	34 mm 12 Pt Skt
STM-1236	36 mm 12 Pt Skt

Williams
½" Drive Metric Long Length Hand Sockets
12 Point
Chrome Finish



Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Kg.
SMD-1213	50346	13	3¼	.26	.12
SMD-1214	50347	14	3¼	.26	.12
SMD-1215	50348	15	3¼	.26	.12
SMD-1216	50349	16	3¼	.26	.12
SMD-1217	50350	17	3¼	.26	.12
SMD-1218	50351	18	3¼	.26	.12
SMD-1219	50352	19	3¼	.37	.17
SMD-1221	50353	21	3¼	.37	.17
SMD-1222	50354	22	3¼	.49	.22
SMD-1224	50355	24	3¼	.54	.25
SMD-1227	50356	27	3¼	.62	.28
SMD-1230	50357	30	3¼	.79	.36

Williams
½" Drive Metric Long Length Hand Socket Set

Set Cat. No. MSSD-12 12 Sockets in TBT-11 Tray
EDP No. 94123 Weight 6.2 Lbs. – 2.8 Kg.

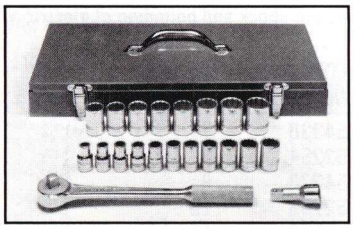
Number	Description
SMD-1213	13 mm 12 Pt Dp Skt
SMD-1214	14 mm 12 Pt Dp Skt
SMD-1215	15 mm 12 Pt Dp Skt
SMD-1216	16 mm 12 Pt Dp Skt
SMD-1217	17 mm 12 Pt Dp Skt
SMD-1218	18 mm 12 Pt Dp Skt

Number	Description
SMD-1219	19 mm 12 Pt Dp Skt
SMD-1221	21 mm 12 Pt Dp Skt
SMD-1222	22 mm 12 Pt Dp Skt
SMD-1224	24 mm 12 Pt Dp Skt
SMD-1227	27 mm 12 Pt Dp Skt
SMD-1230	30 mm 12 Pt Dp Skt

Set Cat. No. MSSD-12T 12 Sockets
EDP No. 94121 Weight 4.7 Lbs. – 2.1 Kg.

Williams
½" Drive Metric Hand Socket and Drive Tool Sets

Set Cat. No. MSS-21 21 tools in TB-34 Box
EDP No. 95022 Weight 13.0 Lbs. – 5.9 Kg.

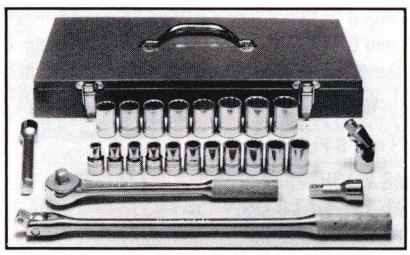


Number	Description
S-52	Ratchet
S-102P	1½" Extension
STM-1210	10 mm 12 Pt Skt
STM-1211	11 mm 12 Pt Skt
STM-1212	12 mm 12 Pt Skt
STM-1213	13 mm 12 Pt Skt
STM-1214	14 mm 12 Pt Skt
STM-1215	15 mm 12 Pt Skt
STM-1216	16 mm 12 Pt Skt
STM-1217	17 mm 12 Pt Skt
STM-1218	18 mm 12 Pt Skt

Number	Description
STM-1219	19 mm 12 Pt Skt
STM-1220	20 mm 12 Pt Skt
STM-1221	21 mm 12 Pt Skt
STM-1222	22 mm 12 Pt Skt
STM-1223	23 mm 12 Pt Skt
STM-1224	24 mm 12 Pt Skt
STM-1225	25 mm 12 Pt Skt
STM-1226	26 mm 12 Pt Skt
STM-1227	27 mm 12 Pt Skt
STM-1228	28 mm 12 Pt Skt

Set Cat. No. MSS-21T 21 Tools
EDP No. 95020 Weight 9.4 Lbs. – 4.2 Kg.

Set Cat. No. MSS-24 24 Tools in TB-34 Box
EDP No. 95027 Weight 15.2 Lbs. – 6.9 Kg.

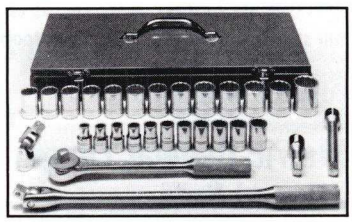


Number	Description
S-52	Ratchet
S-102P	2½" Extension
S-110P	5½" Extension
S-41A	Flex Hdle
S-140A	Univ Joint
STM-1210	10 mm 12 Pt Skt
STM-1211	11 mm 12 Pt Skt
STM-1212	12 mm 12 Pt Skt
STM-1213	13 mm 12 Pt Skt
STM-1214	14 mm 12 Pt Skt
STM-1215	15 mm 12 Pt Skt
STM-1216	16 mm 12 Pt Skt

Number	Description
STM-1217	17 mm 12 Pt Skt
STM-1218	18 mm 12 Pt Skt
STM-1219	19 mm 12 Pt Skt
STM-1210	10 mm 12 Pt Skt
STM-1221	21 mm 12 Pt Skt
STM-1222	22 mm 12 Pt Skt
STM-1223	23 mm 12 Pt Skt
STM-1224	24 mm 12 Pt Skt
STM-1225	25 mm 12 Pt Skt
STM-1226	26 mm 12 Pt Skt
STM-1227	27 mm 12 Pt Skt
STM-1228	28 mm 12 Pt Skt

Set Cat. No. MSS-24T 24 Tools
EDP No. 95025 Weight 11.6 Lbs. – 5.3 Kg.

Set Cat. No. MSS-29 29 Tools in TB-34 Box
EDP No. 95032 Weight 18.8 Lbs. – 8.5 Kg.

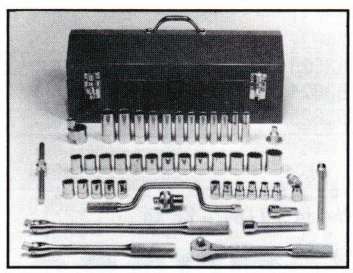


Number	Description
S-52	Ratchet
S-102P	2½" Extension
S-110P	5½" Extension
S-41A	Flex Hdle
S-140A	Univ Joint
STM-1210	10 mm 12 Pt Skt
STM-1211	11 mm 12 Pt Skt
STM-1212	12 mm 12 Pt Skt
STM-1213	13 mm 12 Pt Skt
STM-1214	14 mm 12 Pt Skt
STM-1215	15 mm 12 Pt Skt
STM-1216	16 mm 12 Pt Skt
STM-1217	17 mm 12 Pt Skt
STM-1218	18 mm 12 Pt Skt
STM-1219	19 mm 12 Pt Skt

Number	Description
STM-1220	20 mm 12 Pt Skt
STM-1221	21 mm 12 Pt Skt
STM-1222	22 mm 12 Pt Skt
STM-1223	23 mm 12 Pt Skt
STM-1224	24 mm 12 Pt Skt
STM-1225	25 mm 12 Pt Skt
STM-1226	26 mm 12 Pt Skt
STM-1227	27 mm 12 Pt Skt
STM-1228	28 mm 12 Pt Skt
STM-1229	29 mm 12 Pt Skt
STM-1230	30 mm 12 Pt Skt
STM-1232	32 mm 12 Pt Skt
STM-1234	34 mm 12 Pt Skt
STM-1236	36 mm 12 Pt Skt

Set Cat. No. MSS-29T 29 Tools
EDP No. 95030 Weight 15.2 Lbs. – 6.9 Kg.

Set Cat. No. MSS-48 48 Tools in TB-8T Box
EDP No. 95037 Weight 52.7 Lbs. – 23.9 Kg.



Number	Description
S-52	Ratchet
S-102P	2½" Extension
S-110P	5½" Extension
S-115P	10" Extension
S-40A	12⅛" Flex Hdle
S-41A	17" Flex Hdle
S-140A	Univ Joint
S-10A	Speeder
S-70	Ratchet Spinner
S-55A	Ratchet Adapter
S-60D	Stud Remover
S-20A	Sliding T Hdle
STM-1210	10 mm 12 Pt Skt
STM-1211	11 mm 12 Pt Skt
STM-1212	12 mm 12 Pt Skt
STM-1213	13 mm 12 Pt Skt
STM-1214	14 mm 12 Pt Skt
STM-1215	15 mm 12 Pt Skt
STM-1216	16 mm 12 Pt Skt
STM-1217	17 mm 12 Pt Skt
STM-1218	18 mm 12 Pt Skt
STM-1219	19 mm 12 Pt Skt
STM-1220	20 mm 12 Pt Skt
STM-1221	21 mm 12 Pt Skt

Number	Description
STM-1222	22 mm 12 Pt Skt
STM-1223	23 mm 12 Pt Skt
STM-1224	24 mm 12 Pt Skt
STM-1225	25 mm 12 Pt Skt
STM-1226	26 mm 12 Pt Skt
STM-1227	27 mm 12 Pt Skt
STM-1228	28 mm 12 Pt Skt
STM-1229	29 mm 12 Pt Skt
STM-1230	30 mm 12 Pt Skt
STM-1232	32 mm 12 Pt Skt
STM-1234	34 mm 12 Pt Skt
STM-1236	36 mm 12 Pt Skt
SMD-1213	13 mm 12 Pt Dp Skt
SMD-1214	14 mm 12 Pt Dp Skt
SMD-1215	15 mm 12 Pt Dp Skt
SMD-1216	16 mm 12 Pt Dp Skt
SMD-1217	17 mm 12 Pt Dp Skt
SMD-1218	18 mm 12 Pt Dp Skt
SMD-1219	19 mm 12 Pt Dp Skt
SMD-1221	21 mm 12 Pt Dp Skt
SMD-1222	22 mm 12 Pt Dp Skt
SMD-1224	24 mm 12 Pt Dp Skt
SMD-1227	27 mm 12 Pt Dp Skt
SMD-1230	30 mm 12 Pt Dp Skt

Set Cat. No. MSS-48T 48 Tools
EDP No. 95035 Weight 38.1 Lbs. – 17.3 Kg.

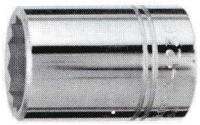
Williams
3/4" Drive Tools

See page 60 for a full selection of Williams 3/4" drive tools.

Williams
3/4" Drive Metric Regular Length Hand Sockets and Sets

12 Point
Chrome Finish

Available in a wide size range from 19mm to 60mm, Williams 3/4" drive metric sockets are designed for heavy duty service.



Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Kg.
HM-1219	50461	19	2	.43	.20
HM-1222	53612	22	2	.49	.22
HM-1224	53613	24	2	.50	.23
HM-1227	53614	27	2 1/8	.55	.25
HM-1230	53615	30	2 1/4	.73	.33
HM-1232	53616	32	2 5/16	.75	.34
HM-1235	53617	35	2 3/8	.85	.39
HM-1236	53618	36	2 7/16	.94	.43
HM-1238	53619	38	2 1/2	1.1	.50
HM-1241	53620	41	2 5/8	1.2	.54
HM-1246	53621	46	2 1/2	1.8	.82
HM-1250	53622	50	3	2.2	1.0
HM-1254	53623	54	3 1/4	2.6	1.2
HM-1255	53624	55	3 3/8	2.8	1.3
HM-1260	53625	60	3 5/8	3.3	1.5

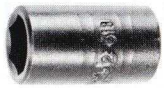
Set Cat No. MSH-6T 6 Sockets
EDP No. 53600 Weight 3.7 Lbs. – 1.6 Kg.

Number	Description	Number	Description
HM-1219	19 mm 12 Pt Skt	HM-1227	27 mm 12 Pt Skt
HM-1222	22 mm 12 Pt Skt	HM-1232	32 mm 12 Pt Skt
HM-1224	24 mm 12 Pt Skt	HM-1236	36 mm 12 Pt Skt

Set Cat. No. MSH-7T 6 Sockets
EDP No. 53601 Weight 12.4 Lbs. – 5.8 Kg.

Number	Description	Number	Description
HM-1238	38 mm 12 Pt Skt	HM-1250	50 mm 12 Pt Skt
HM-1241	41 mm 12 Pt Skt	HM-1255	55 mm 12 Pt Skt
HM-1246	46 mm 12 Pt Skt	HM-1260	60 mm 12 Pt Skt

Williams
3/8" Square Drive Metric Regular Length Impact Sockets and Set



6 Point
Black Finish

Manufactured of extra tough alloy steel and specifically heat-treated to withstand the constant shock and pounding of electric and pneumatic driver tools.

Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Kg.
2M-607	54336	7	1 1/4	.06	.03
2M-608	52254	8	1 1/4	.08	.04
2M-609	54338	9	1 1/4	.06	.03
2M-610	52255	10	1 1/4	.08	.04
2M-611	54340	11	1 1/4	.06	.03
2M-612	54341	12	1 1/4	.10	.05
2M-613	52256	13	1 1/2	.11	.05
2M-614	54343	14	1 1/2	.11	.05
2M-615	52257	15	1 1/2	.15	.07
2M-616	54362	16	1 1/2	.13	.06
2M-617	54344	17	1 1/2	.14	.06
2M-618	54363	18	1 1/2	.16	.07
2M-619	52258	19	1 1/2	.21	.10

Set Cat. No. MS-2-13H 13 Sockets with RB-10 Rail & Clips
EDP No. 59700 Weight 1.7 Lbs. – .84 Kg.

Number	Description	Number	Description
2M-607	7 mm 6 Pt Skt	2M-614	14 mm 6 Pt Skt
2M-608	8 mm 6 Pt Skt	2M-615	15 mm 6 Pt Skt
2M-609	9 mm 6 Pt Skt	2M-616	16 mm 6 Pt Skt
2M-610	10 mm 6 Pt Skt	2M-617	17 mm 6 Pt Skt
2M-611	11 mm 6 Pt Skt	2M-618	18 mm 6 Pt Skt
2M-612	12 mm 6 Pt Skt	2M-619	19 mm 6 Pt Skt
2M-613	13 mm 6 Pt Skt		

Set Cat. No. MS-2-13HT 13 Sockets
EDP No. 59701 Weight 1.3 Lbs. – .59 Kg.

Williams
3/8" Square Drive Metric Long Length Impact Sockets

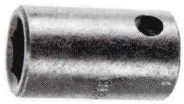
6 Point
Black Finish

Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Kg.
12M-608	52250	8	2	.13	.06
12M-610	52251	10	2	.14	.06
12M-613	52252	13	2	.14	.06
12M-615	52253	15	2	.18	.08

Williams

½" Square Drive Metric Regular Length Impact Sockets and Set

6 Point
Black Finish



Designed for power and impact use.

Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Kg.
4M-610	54346	10	1½	.15	.07
4M-611	54347	11	1½	.15	.07
4M-612	54348	12	1½	.19	.09
4M-613	54349	13	1½	.19	.09
4M-614	54350	14	1½	.16	.07
4M-615	54356	15	1½	.18	.08
4M-616	54357	16	1½	.20	.09
4M-617	54351	17	1½	.22	.10
4M-618	54358	18	1½	.25	.11
4M-619	54352	19	1½	.27	.12
4M-621	54359	21	1½	.27	.12
4M-622	54353	22	1½	.26	.12
4M-624	54354	24	1¾	.34	.15
4M-627	54355	27	2	.35	.16
4M-630	54360	30	2	.41	.41

Set Cat. No. MS-4-12H 12 Sockets with RS-12 Rail & Clips
EDP No. 59702 Weight 3.4 Lbs. – 1.5 Kg.

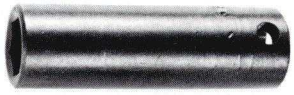
Number	Description	Number	Description
4M-613	13 mm 6 Pt Skt	4M-619	19 mm 6 Pt Skt
4M-614	14 mm 6 Pt Skt	4M-621	21 mm 6 Pt Skt
4M-615	15 mm 6 Pt Skt	4M-622	22 mm 6 Pt Skt
4M-616	16 mm 6 Pt Skt	4M-624	24 mm 6 Pt Skt
4M-617	17 mm 6 Pt Skt	4M-627	27 mm 6 Pt Skt
4M-618	18 mm 6 Pt Skt	4M-630	30 mm 6 Pt Skt

Set Cat. No. MS-4-12HT 12 Sockets
EDP No. 59703 Weight 3.1 Lbs. – 1.4 Kg.

Williams

½" Square Drive Metric Long Length Impact Sockets

6 Point
Black Finish



Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Kg.
14M-610	56386	10	3¼	.38	.17
14M-613	56387	13	3¼	.36	.16
14M-615	56388	15	3¼	.34	.15
14M-618	56389	18	3¼	.49	.22
14M-619	56391	19	3¼	.47	.21
14M-622	56400	22	3¼	.84	.38
14M-624	56401	24	3¼	1.1	.48
14M-627	56397	27	3¼	.97	.44

Williams

¾" Square Drive Metric Regular Length Impact Sockets

6 Point
Black Finish.

Catalog Number	EDP Number	Opening mm	Length	Weight Lbs.	Kg.
6M-617	53629	17	1¾	.61	.28
6-624	53070	19	1¾	.62	.28
6-628	53073	22	1⅞	.70	.32
6-630	53074	24	1⅞	.75	.34
6-634	53076	27	2 1/16	.78	.35
6-638	53104	30	2 1/16	.95	.43
6-640	53078	32	2 1/16	1.1	.50
6-644	53080	35	2 3/16	1.3	.49
6M-636	53637	36	2 3/16	1.4	.64
6-648	53082	38	2¼	1.5	.68
6-652	53083	41	2¼	1.7	.77
6-654	53084	43	2 7/16	1.7	.77

Williams

Retainer Pins and O-Rings For ¾" and Larger Drive Impact Sockets

Pins and rings are packaged separately, 24 pieces per box. O-Rings are made of material compounded for resistance to oils.

Catalog Number	EDP Number	Diam	Length	Weight/ 24 Pcs. Lbs.	Kg.	For Use On
Retainer Pins						
6-2B	53144	3/16	1¼	.26	.12	¾": 6M-617 thru 6-636
6-2C	53145	3/16	1½	.36	.16	¾": 6-638 thru 6-654, ¾" Universal, ¾" Adapters, ¾" Extensions
O-Ring						
6-1A	55344	1 7/16		.08	.04	All ¾" Impact Sockets, ¾" Universal Joint, all ¾" Adapters, all ¾" Extensions

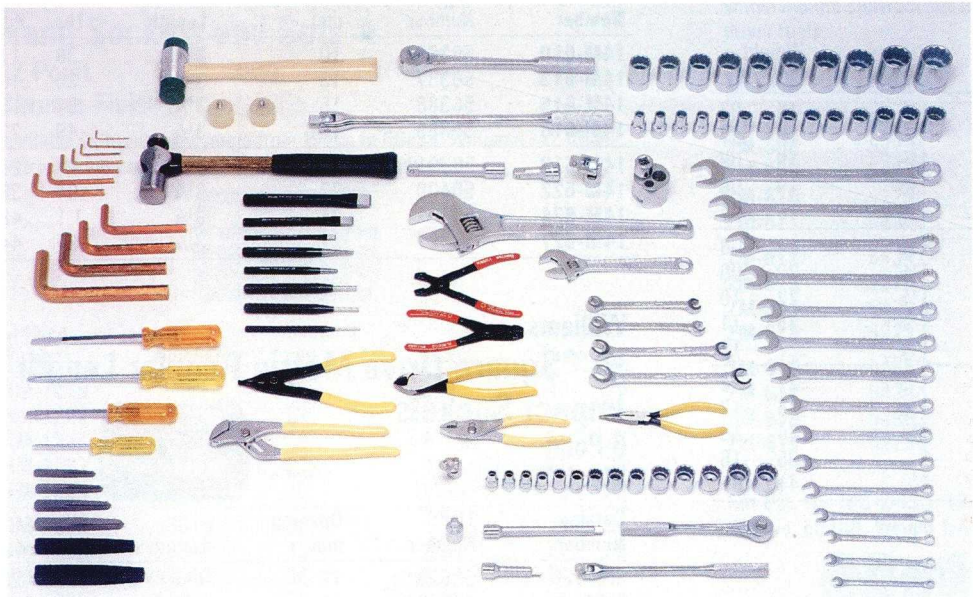
Williams

Metric Base Industrial Mechanic's & Machine Repair Set

Included in this set is a broad selection of hand tools required to service metric fasteners.

Set Cat. No. MSC-113 113 Tools in TB-6024R Box
EDP No. 99853 Weight 81.8 Lbs. – 37.1 Kg.

Set Cat. No. MSC-113T 113Tools Only EDP No. 99852 Weight 23.8 Lbs. – 10.8 Kg.



Metric Wrenches

MWS-5T Comb Wr Set:

XOEM-7	7 mm
XOEM-8	8 mm
XOEM-9	9 mm
XOEM-10	10 mm
XOEM-11	11 mm
XOEM-12	12 mm
XOEM-13	13 mm
XOEM-14	14 mm
XOEM-15	15 mm
XOEM-17	17 mm

MWS-3T Comb Wr Set:

XOEM-18	18 mm
XOEM-19	19 mm
XOEM-21	21 mm
XOEM-22	22 mm
XOEM-24	24 mm

MFN-911	9 x 11 mm Flare Nut Wr
MFN-1012	10 x 12 mm Flare Nut Wr
MFN-1314	13 x 14 mm Flare Nut Wr
MFN-1517	15 x 17 mm Flare Nut Wr
MWS-27	11 Skt Hd Keys
MWS-47	7 Hx Keys w Hdl
AP-8X	8" Adj Wr
AP-15X	15" Adj Wr

Metric Hand Sockets

MSB-19T 3/8" Dr Set:

B-52	Ratchet
B-108	3" Extension
B-110	6" Extension
B-40A	Flex Hdle
B-140A	Universal
BM-1208	8 mm 12 Pt Skt
BM-1209	9 mm 12 Pt Skt
BM-1210	10 mm 12 Pt Skt
BM-1211	11 mm 12 Pt Skt
BM-1212	11 mm 12 Pt Skt
BM-1213	13 mm 12 Pt Skt
BM-1214	14 mm 12 Pt Skt
BM-1216	16 mm 12 Pt Skt
BM-1217	17 mm 12 Pt Skt
BM-1218	18 mm 12 Pt Skt
BM-1220	20 mm 12 Pt Skt
BM-1221	21 mm 12 Pt Skt
BM-1222	22 mm 12 Pt Skt
BM-1224	24 mm 12 Pt Skt

BS-131	1/2F x 3/8M Adapter

MSS-29T 1/2" Dr Set:

S-52	Ratchet
S-102P	2 1/2" Extension
S-110P	5 1/2" Extension
S-41A	Flex Hdle
S-140A	Univ Joint
STM-1210	10 mm 12 Pt Skt
STM-1211	11 mm 12 Pt Skt
STM-1212	12 mm 12 Pt Skt
STM-1213	13 mm 12 Pt Skt
STM-1214	14 mm 12 Pt Skt
STM-1215	15 mm 12 Pt Skt
STM-1216	16 mm 12 Pt Skt
STM-1217	17 mm 12 Pt Skt
STM-1218	18 mm 12 Pt Skt
STM-1219	19 mm 12 Pt Skt
STM-1220	20 mm 12 Pt Skt
STM-1221	21 mm 12 Pt Skt
STM-1222	22 mm 12 Pt Skt
STM-1223	23 mm 12 Pt Skt
STM-1224	24 mm 12 Pt Skt
STM-1225	25 mm 12 Pt Skt
STM-1226	26 mm 12 Pt Skt
STM-1227	27 mm 12 Pt Skt
STM-1228	28 mm 12 Pt Skt
STM-1229	29 mm 12 Pt Skt
STM-1230	30 mm 12 Pt Skt
STM-1232	32 mm 12 Pt Skt
STM-1234	34 mm 12 Pt Skt
STM-1236	36 mm 12 Pt Skt

S-60D 1/2" Drive Stud Remover

Pliers & Screwdrivers

PL-1520C	10" Superjoint Pliers
PL-57C	7" Dia Cutting Pliers
PL-76C	6 1/2" Chain Nose Pliers
PL-1515	8" Lock Ring Pliers
PL-8	8" Slip Joint Pliers
PL-1600C	Snap Ring Set
DS-4	4" Sq Blade S'Driver
DS-6	6" Sq Blade S'Driver
DP-1	3" Phillips S'Driver
DP-3	6" Phillips S'Driver

Hammers/Punches/Chisels

HP-16	1 lb Ball Pein Hammer
HSF-150-A	12 oz. Hammer Body
HSF-15M	2 ea. Med. Hard Hammer Tips
HSF-15T	2 ea. Tough Hammer Tips

PC-8 Punch and Chisel Set:

P-4	Pin Punch, 1/8 pt
P-6	Pin Punch, 3/16 pt
P-8	Pin Punch, 1/4 pt
P-15	Sld Punch, 5/32 pt
P-40	Ctr Punch, 5"
C-10	Cold Chisel, 5/16 pt
C-16	Cold Chisel, 1/2 pt
C-24	Cold Chisel, 3/4 pt

Miscellaneous Tools

EXS-30 Screw Extractor Set:

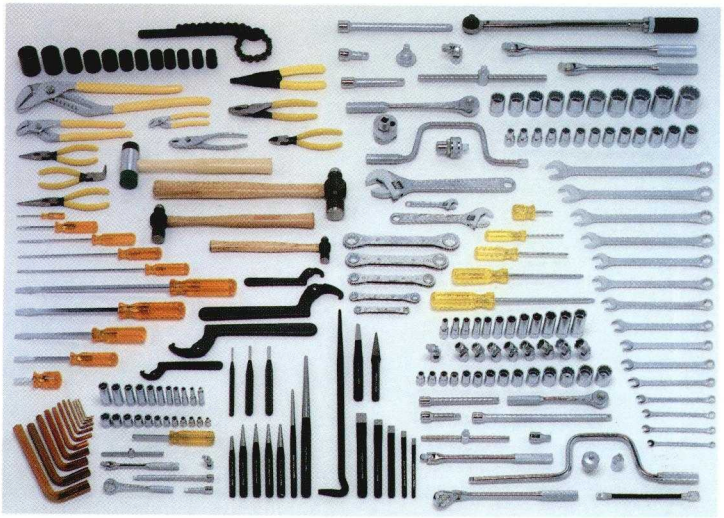
EX-21	1/4 to 5/16 bolts
EX-22	3/8 bolts
EX-23	7/16 bolts
EX-24	1/2 to 9/16 bolts
EX-25	5/8 bolts
EX-26	3/4 bolts

Williams
Metric Service Mobile Work Shop

From delicate service jobs requiring only 4 mm hex opening, to heavy repair or assembly jobs requiring 30 mm openings, this is the set that can do them all. It even includes a micrometer-type torque wrench that will measure 47 to 345 Nm. In this set the service mechanic has everything he needs at the job to do it quickly.

Set Cat. No. MSC-230 230 Tools in Tool Box TB-6006R and Tool Cabinet TC-609R
EDP No. 49452 Weight 276.2 Lbs. – 125.4 Kg.

Set Cat. No. MSC-230T 230 Tools Only EDP No. 49053 Weight 79.2 Lbs. – 35.9 Kg.



Metric Wrenches

MWS-5T Comb Wr Set:

XOEM-7	7 mm
XOEM-8	8 mm
XOEM-9	9 mm
XOEM-10	10 mm
XOEM-11	11 mm
XOEM-12	12 mm
XOEM-13	13 mm
XOEM-14	14 mm
XOEM-15	15 mm
XOEM-17	17 mm

MWS-3T Comb Wr Set:

XOEM-18	18 mm
XOEM-19	19 mm
XOEM-21	21 mm
XOEM-22	22 mm
XOEM-24	24 mm

MWS-30T Ratch Wr Set:

RBM-0708	7 x 8 mm
RBM-0910	9 x 10 mm
RBM-1112	11 x 12 mm
RBM-1314	13 x 14 mm
RBM-1517	15 x 17 mm

AP-4	4" Adj Wr
AP-8X	8" Adj Wr
AP-12X	12" Adj Wr
471	¾ – 2" Span
474	2 – 4¾" Span
0-471	¾– 2" Span
0-474	2 – 4¾" Span
MWS-27	11 Skt Hd Keys
MWS-47	7 Hx Keys w Hdl
CW-4	Chain Wr

Metric Hand Sockets

MSM-30T ¼" Dr Set:

M-52	Ratchet
M-106	Spinner Hdle
M-102	2" Extension
M-115	6" Extension
M-42A	Flex Hdle
M-20A	Sliding T Hdle
M-140A	Univ Jt
MM-604	4 mm 6 Pt Skt
MM-605	5 mm 6 Pt Skt
MM-605.5	5.5 mm 6 Pt Skt
MM-606	6 mm 6 Pt Skt
MM-607	7 mm 6 Pt Skt
MM-608	8 mm 6 Pt Skt
MM-609	9 mm 6 Pt Skt
MM-610	10 mm 6 Pt Skt
MM-611	11 mm 6 Pt Skt
MM-612	12 mm 6 Pt Skt
MM-613	13 mm 6 Pt Skt
MM-614	14 mm 6 Pt Skt
MMD-604	4 mm 6 Pt Dp Skt
MMD-605	5 mm 6 Pt Dp Skt
MMD-606	6 mm 6 Pt Dp Skt
MMD-607	7 mm 6 Pt Dp Skt
MMD-608	8 mm 6 Pt Dp Skt
MMD-609	9 mm 6 Pt Dp Skt
MMD-610	10 mm 6 Pt Dp Skt
MMD-611	11 mm 6 Pt Dp Skt
MMD-612	12 mm 6 Pt Dp Skt
MMD-613	13 mm 6 Pt Dp Skt
MMD-614	14 mm 6 Pt Dp Skt

MSB-48T ⅜" Dr Set:

B-52	Ratchet
B-101	1½" Extension
B-108	3" Extension
B-110	6" Extension
B-115	10½" Extension
B-40A	Flex Hdle
B-140A	Universal Jt
B-20A	Sliding T Hdle
B-54	Flex Head Ratchet
B-70	Ratchet Spinner
B-15	Speeder
B-55	Ratchet Adapter
BFE-8	Flexible Ext.
BMD-608	8 mm 6 Pt Dp Skt
BMD-609	9 mm 6 Pt Dp Skt
BMD-610	10 mm 6 Pt Dp Skt
BMD-611	11 mm 6 Pt Dp Skt
BMD-612	12 mm 6 Pt Dp Skt
BMD-613	13 mm 6 Pt Dp Skt
BMD-614	14 mm 6 Pt Dp Skt
BMD-615	15 mm 6 Pt Dp Skt
BMD-616	16 mm 6 Pt Dp Skt
BMD-617	17 mm 6 Pt Dp Skt
BMD-618	18 mm 6 Pt Dp Skt
BMD-619	19 mm 6 Pt Dp Skt
BMU-608	8 mm 6 Pt Univ Skt
BMU-609	9 mm 6 Pt Univ Skt
BMU-611	11 mm 6 Pt Univ Skt
BMU-612	12 mm 6 Pt Univ Skt
BMU-613	13 mm 6 Pt Univ Skt
BMU-614	14 mm 6 Pt Univ Skt
BMU-616	16 mm 6 Pt Univ Skt
BMU-617	17 mm 6 Pt Univ Skt
BMU-618	18 mm 6 Pt Univ Skt
BM-1208	8 mm 12 Pt Skt
BM-1209	9 mm 12 Pt Skt
BM-1210	10 mm 12 Pt Skt
BM-1211	11 mm 12 Pt Skt
BM-1212	12 mm 12 Pt Skt
BM-1213	13 mm 12 Pt Skt
BM-1214	14 mm 12 Pt Skt
BM-1216	16 mm 12 Pt Skt
BM-1217	17 mm 12 Pt Skt
BM-1218	18 mm 12 Pt Skt
BM-1220	20 mm 12 Pt Skt
BM-1221	21 mm 12 Pt Skt
BM-1222	22 mm 12 Pt Skt
BM-1224	24 mm 12 Pt Skt

MSS-48T ½" Dr Set:

S-52	Ratchet
S-102P	2½" Extension
S-110P	5½" Extension
S-115P	10" Extention
S-40A	12⅛" Flex Hdle
S-41A	17" Flex Hdle
S-140A	Univ Jt
S-10A	Speeder
S-70	Ratchet Spinner
S-55A	Ratchet Adapter
S-60D	Stud Remover
S-20A	Sliding T Hdle
STM-1210	10 mm 12 Pt Skt
STM-1211	11 mm 12 Pt Skt
STM-1212	12 mm 12 Pt Skt
STM-1213	13 mm 12 Pt Skt
STM-1214	14 mm 12 Pt Skt
STM-1215	15 mm 12 Pt Skt
STM-1216	16 mm 12 Pt Skt
STM-1217	17 mm 12 Pt Skt
STM-1218	18 mm 12 Pt Skt
STM-1219	19 mm 12 Pt Skt
STM-1220	20 mm 12 Pt Skt
STM-1221	21 mm 12 Pt Skt
STM-1222	22 mm 12 Pt Skt
STM-1223	23 mm 12 Pt Skt
STM-1224	24 mm 12 Pt Skt
STM-1225	25 mm 12 Pt Skt
STM-1226	26 mm 12 Pt Skt
STM-1227	27 mm 12 Pt Skt
STM-1228	28 mm 12 Pt Skt
STM-1229	29 mm 12 Pt Skt
STM-1230	30 mm 12 Pt Skt
STM-1232	32 mm 12 Pt Skt
STM-1234	34 mm 12 Pt Skt
STM-1236	36 mm 12 Pt Skt
SMD-1213	13 mm 12 Pt Dp Skt
SMD-1214	14 mm 12 Pt Dp Skt
SMD-1215	15 mm 12 Pt Dp Skt
SMD-1216	16 mm 12 Pt Dp Skt
SMD-1217	17 mm 12 Pt Dp Skt
SMD-1218	18 mm 12 Pt Dp Skt
SMD-1219	19 mm 12 Pt Dp Skt
SMD-1221	21 mm 12 Pt Dp Skt
SMD-1222	22 mm 12 Pt Dp Skt
SMD-1224	24 mm 12 Pt Dp Skt
SMD-1227	27 mm 12 Pt Dp Skt
SMD-1230	30 mm 12 Pt Dp Skt

Metric Impact Sockets

MS-4-12HT ½" Dr Set:

4M-613	13 mm 6 Pt Skt
4M-614	14 mm 6 Pt Skt
4M-615	15 mm 6 Pt Skt
4M-616	16 mm 6 Pt Skt
4M-617	17 mm 6 Pt Skt
4M-618	18 mm 6 Pt Skt
4M-619	19 mm 6 Pt Skt
4M-621	21 mm 6 Pt Skt
4M-622	22 mm 6 Pt Skt
4M-624	24 mm 6 Pt Skt
4M-627	27 mm 6 Pt Skt
4M-630	30 mm 6 Pt Skt

Pliers & Screwdrivers

PL-8	8" Slip Jt
PL-46C	6" Diag Cut
PL-76C	6" Chain Nose
PL-77C	7" Chain Nose
PL-126C	Crvd Ch Nose
PL-218C	Crimper
PL-370C	7½" Slip Jt
PL-1519C	5" Superjoint
PL-1520C	10" Superjoint
PL-1524C	16" Superjoint

DSS-5 Screwdriver Set:

DS-4	4" Sq. Blade
DS-6	6" Sq. Blade
DS-8	8" Sq. Blade
DS-12	12" Sq. Blade
DS-62	1½" Stubby

DPS-5 Screwdriver Set:

DP-1	Phillips #1
DP-2	Phillips #2
DP-3	Phillips #3
DP-4	Phillips #4
DP-62	Phillips #2

DES-5 Screwdriver Set:

DE-43	3" Electrician
DE-46	6" Electrician
DE-48	8" Electrician
DE-50	10" Electrician
DE-52	2" Pocket

Hammers/Punches/Chisels

HBP-5-0	4 oz. Hammer
HBP-2-0	¾ lb. Hammer
HBP-4	2 lb. Hammer
HSF-155-A	1¼ lb. Hammer Body
HSF-15H	2 ea. Hard Hammer Tips
HSF-15S	2 ea. Soft Hammer Tips

PC-17 Punch & Chisel Set:

C-10	Cold Chisel, 5/16 pt
C-12	Cold Chisel, ⅜ pt
C-16	Cold Chisel, ½ pt
C-20	Cold Chisel, ⅝ pt
C-24	Cold Chisel, ¾ pt
C-42	¼ Cape Chisel
C-62	⅜ Dia Pt Chisel
P-4	Pin Punch, ⅛ pt
P-6	Pin Punch, 3/16 pt
P-8	Pin Punch, ¼ pt
P-14	Sld Punch, ⅛ pt
P-15	Sld Punch, 5/32 pt
P-16	Sld Punch, 3/16 pt
P-25	Tpr Punch, 5/32 pt
P-28	Tpr Punch, ¼ pt
P-32	Prick Punch, 6"
P-40	Ctr Punch, 5"
C-715	15½" Roll Bar

Miscellaneous Tools

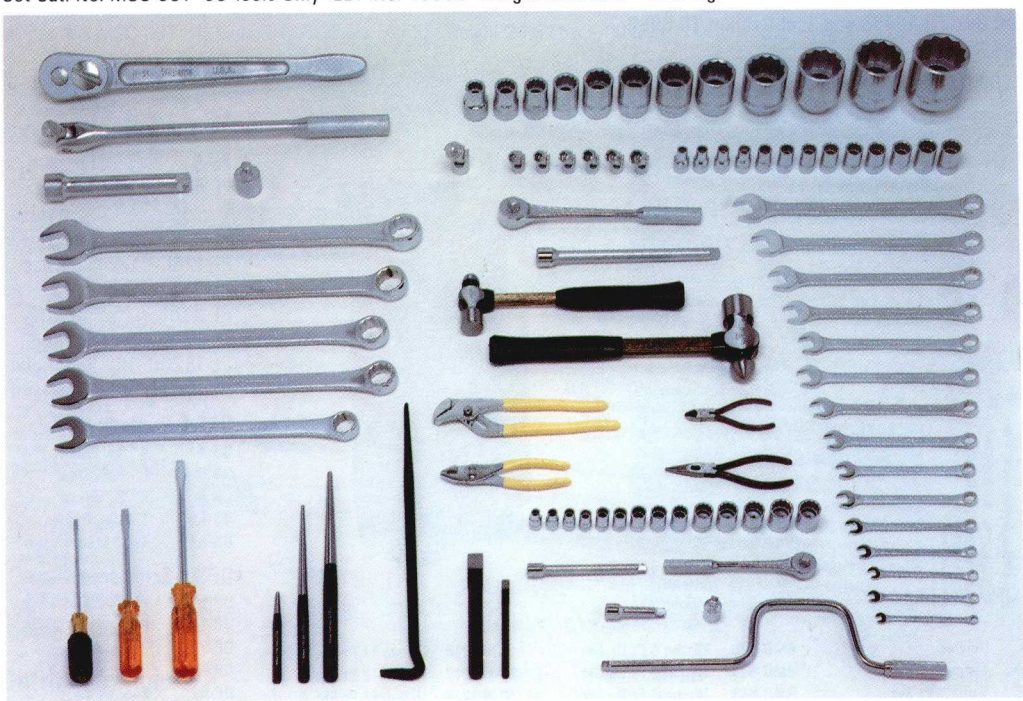
STW-3RCF	Torque Wrench

Williams

Metric Heavy Equipment Repair Set

Set Cat. No. MSC-93 93 Tools in TB-6006R Tool Box
EDP No. 49054 Weight 120.5 Lbs. – 54.7 Kg.

Set Cat. No. MSC-93T 93 Tools Only EDP No. 49055 Weight 65.5 Lbs. – 29.7 Kg.



Metric Wrenches

MWS-5T Combination Wrench Set:

XOEM-7	7 mm
XOEM-8	8 mm
XOEM-9	9 mm
XOEM-10	10 mm
XOEM-11	11 mm
XOEM-12	12 mm
XOEM-13	13 mm
XOEM-14	14 mm
XOEM-15	15 mm
XOEM-17	17 mm

MWS-6T Combination Wrench Set:

XOEM-18	18 mm
XOEM-19	19 mm
XOEM-21	21 mm
XOEM-22	22 mm
XOEM-24	24 mm
XOEM-27	27 mm
XOEM-30	30 mm
XOEM-32	32 mm
XOEM-34	34 mm
XOEM-36	36 mm

Metric Hand Sockets

MSB-14T 3/8" Drive Set:

BM-1208	8 mm 12 Pt Skt
BM-1209	9 mm 12 Pt Skt
BM-1210	10 mm 12 Pt Skt
BM-1211	11 mm 12 Pt Skt
BM-1212	12 mm 12 Pt Skt
BM-1213	13 mm 12 Pt Skt
BM-1214	14 mm 12 Pt Skt
BM-1216	16 mm 12 Pt Skt
BM-1217	17 mm 12 Pt Skt
BM-1218	18 mm 12 Pt Skt
BM-1219	19 mm 12 Pt Skt
BM-1220	20 mm 12 Pt Skt
BM-1221	21 mm 12 Pt Skt
BM-1222	22 mm 12 Pt Skt

B-52	3/8" Drive Ratchet
BS-131	1/2F x 3/8M Adapter
B-108	3/8" Drive 3" Extension
B-110	3/8" Drive 6" Extension
BMU-609	3/8" Drive 9 mm 6 Pt Univ Skt
BMU-610	3/8" Drive 10 mm 6 Pt Univ Skt
BMU-611	3/8" Drive 11 mm 6 Pt Univ Skt
BMU-612	3/8" Drive 12 mm 6 Pt Univ Skt
BMU-613	3/8" Drive 13 mm 6 Pt Univ Skt
BMU-614	3/8" Drive 14 mm 6 Pt Univ Skt
BMU-615	3/8" Drive 15 mm 6 Pt Univ Skt
B-15	3/8" Drive Speeder

MSS-13T 1/2" Drive Set:

STM-1210	10 mm 12 Pt Skt
STM-1211	11 mm 12 Pt Skt
STM-1212	12 mm 12 Pt Skt
STM-1213	13 mm 12 Pt Skt
STM-1214	14 mm 12 Pt Skt
STM-1215	15 mm 12 Pt Skt
STM-1216	16 mm 12 Pt Skt
STM-1217	17 mm 12 Pt Skt
STM-1218	18 mm 12 Pt Skt
STM-1219	19 mm 12 Pt Skt
STM-1220	20 mm 12 Pt Skt
STM-1221	21 mm 12 Pt Skt
STM-1222	22 mm 12 Pt Skt

S-52	1/2" Drive Ratchet
S-115P	1/2" Drive 10" Extension
S-140A	1/2" Drive Univ Jt

MSH-6T 3/4" Drive Set:

HM-1219	19 mm 12 Pt Skt
HM-1222	22 mm 12 Pt Skt
HM-1224	24 mm 12 Pt Skt
HM-1227	27 mm 12 Pt Skt
HM-1232	32 mm 12 Pt Skt
HM-1236	36 mm 12 Pt Skt

MSH-7T 3/4" Drive Set:

HM-1238	38 mm 12 Pt Skt
HM-1241	41 mm 12 Pt Skt
HM-1246	46 mm 12 Pt Skt
HM-1250	50 mm 12 Pt Skt
HM-1255	55 mm 12 Pt Skt
HM-1260	60 mm 12 Pt Skt

H-51	3/4" Drive Ratchet
SH-131	3/4F x 1/2M Adapter
H-110	3/4" Drive 8" Extension
H-41A	3/4" Drive Flex Hdle

Pliers & Screwdrivers

PL-47	1/4" Diag Cut
PL-76	1/2" Chain Nose
PL-1520C	10" Superjoint
PL-6	6" Slip Jt
DR-26	6" Rd Blade
DR-28	8" Rd Blade
DEG-46	6" Rd Blade

Hammers/Punches/Chisels

HP-12	12 oz. Ball Pein Hammer
HP-32	2 lb. Ball Pein Hammer
C-715	15 1/2" Roll Bar
P-40	Ctr Punch, 5"
P-26	Tpr Punch, 3/16 pt
P-29	Tpr Punch, 5/16 pt
C-12	Cold Chisel, 3/8 pt
C-24	Cold Chisel, 3/4 pt

Williams®

Section 8

Clamps/Pipe Tools

Clamps

Drop forged and heat-treated for added strength, Williams clamps provide the reliable service that is required in industry.

Pipe Tools

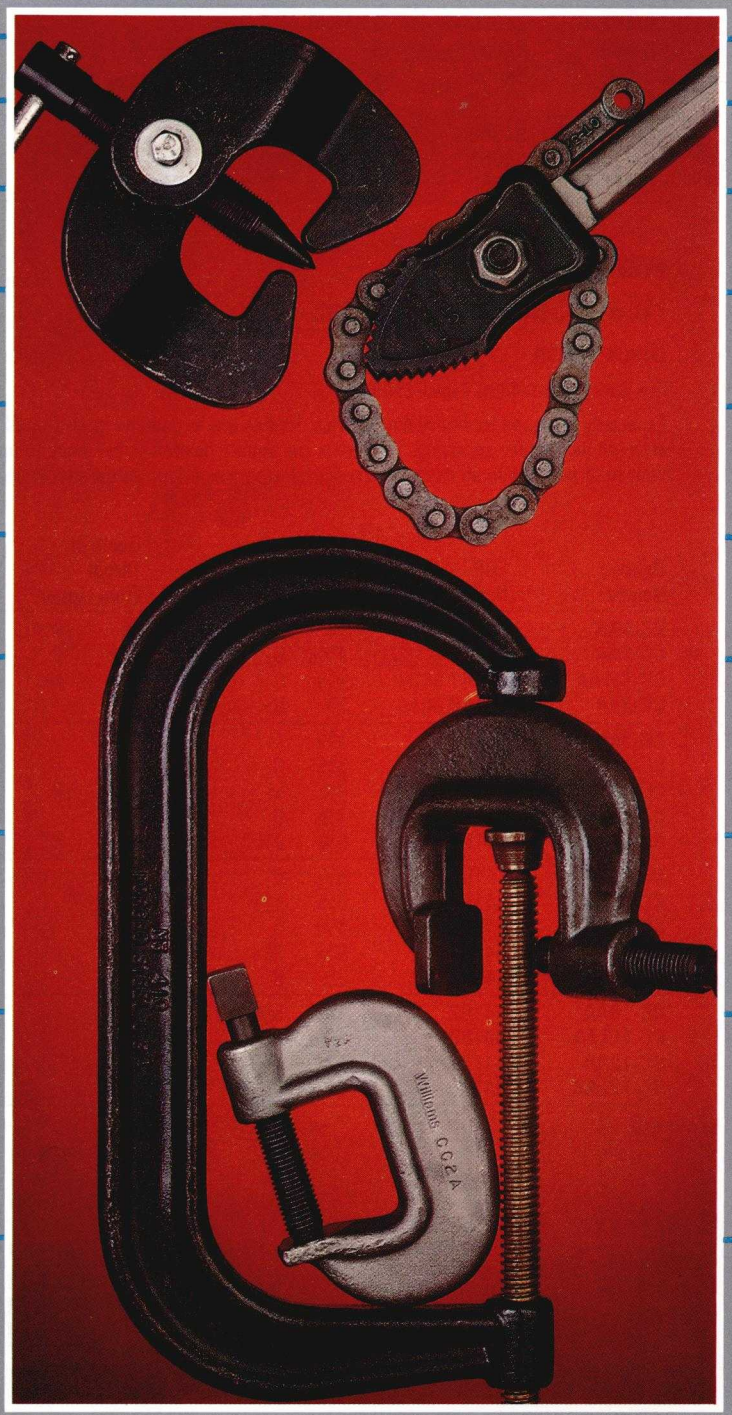
Chain pipe tongs and flange jacks are available in a wide range of sizes for your needs.

Chain Tong Safety

Chain tongs are high torque tools. To avoid slipping or failure and injury, it is important that:

- Jaws be kept sharp and firmly secured in the handle. Chain pin seats in the head must be in good condition.
- Always use chain manufactured specifically for chain tongs. Do not attempt to lengthen, repair, or modify chains.
- Chain length should correctly fit the item to be turned and provide sufficient jaw contact, preferably near the base section.
- Inspect tools periodically and discard worn or damaged tools.

Use of the right tools will help do the job properly and safely.



Williams
Deep Throat C-Clamps With Copper Screw
Black Finish

Fed. Spec.: GGG-C-406D, Type I, Class A, Style 1, 2

I-beam design frames are forged and heat-treated for maximum strength and rigidity. The copper plated screw resists welding splatter, which allows this clamp to be used for both general purpose and welding applications.

Catalog Number	EDP Number	Capacity Max.	Capacity Min.	Depth of Throat From Center	Extreme Body Dimensions Length	Extreme Body Dimensions Width	Screw Dia.	Overall Length	Weight Lbs.	Weight Kg.
CC-402	84056	2	0	2	4 7/8	3 3/4	1/2	4 13/16	1.3	.59
CC-403	84057	3	0	2 3/8	6 1/8	4 1/8	1/2	6	2.0	.91
CC-404	84058	4	0	2 3/4	7 5/8	4 3/4	3/4	8 3/16	3.5	1.6
CC-406	84059	6	0	3 5/8	10 1/4	6	3/4	10 5/16	5.0	2.3
CC-408	84060	8	0	4 1/2	12 3/4	7	3/4	12 3/4	7.0	3.2
CC-410	84061	10	2	5 3/8	15 1/4	8 1/8	3/4	12 3/4	10.5	4.8
CC-412	84062	12	4	5 3/4	18	9	7/8	13 1/16	15.5	7.0

Williams
Heavy Service C-Clamps
Black Finish

Fed. Spec.: GGG-C-406D, Type I, Class D

Especially designed for heavy duty service, frames are forged and heat-treated to increase strength and reduce springing. To tighten, the square headed screw must be turned with a wrench. If zero minimum capacity is required, clamp with long screw should be ordered.

Catalog Number	EDP Number	Capacity Max.	Capacity Min.	Depth of Throat From Center	Extreme Body Dimensions Length	Extreme Body Dimensions Width	Screw Dia.	Screw Length Under Head	Weight Lbs.	Weight Kg.
CC-0AA	84145	3/4	0	3/4	2 1/4	2	3/8	1 1/2	.3	.14
CC-1AA	84146	1 7/16	0	1 1/8	3 1/4	2 3/4	7/16	2 1/4	1.3	.59
CC-1 1/2AA	84147	1 7/8	0	1 5/8	4 3/8	3 5/8	5/8	2 7/8	2.3	1.0
CC-2AA	84148	2 3/8	0	1 3/4	6	4 1/2	3/4	3	4.3	2.0
CC-3AA	84150	3 3/8	1/4	2 3/8	7 1/4	5 3/4	7/8	4 1/2	7	3.2
CC-3LAA	84151	3 3/8	0	2 3/8	7 1/4	5 3/4	7/8	5 3/8	7	3.2
CC-4AA	84152	4 1/2	1/2	2 3/4	9	6 1/2	7/8	4 1/2	10.3	4.7
CC-4LAA	84153	4 1/2	0	2 3/4	9	6 1/2	7/8	6 3/4	10.3	4.7
CC-5AA	84154	5 1/2	2 1/2	3 1/8	10 1/2	7	7/8	5 15/16	12.5	5.7
CC-5LAA	84156	5 1/2	0	3 1/8	10 1/2	7	7/8	9 1/16	12.5	5.7
CC-6AA	84157	6 1/2	1 5/8	3 3/8	12	7 7/8	1 1/8	5 15/16	19.8	9.0
CC-6LAA	84159	6 1/2	0	3 3/8	12	7 7/8	1 1/8	9 1/16	19.8	9.0
CC-8AA	84160	8 1/2	3 5/8	4 1/8	14 3/8	8 1/2	1 1/8	7	25	11.4
CC-8LAA	84161	8 1/2	0	4 1/8	14 3/8	8 1/2	1 1/8	11 3/8	25	11.4
CC-10AA	84162	10 1/2	5 5/8	4 1/8	16 7/8	9 1/8	1 1/8	7	32	14.5
CC-10LAA	84163	10 1/2	0	4 1/8	16 7/8	9 1/8	1 1/8	13 1/2	32	14.5
CC-12AA	84164	12 1/4	7 7/8	4 1/2	19 3/8	9 7/8	1 1/8	8	42.8	19.5
CC-12LAA	84165	12 1/4	0	4 1/2	19 3/8	9 7/8	1 1/8	15 3/4	42.8	19.5

Williams
Chain Wrenches

Black Finish

Forged handle is fully heat-treated. Ideal for use in close applications. Successive "bites" can be taken without removal of wrench from work.

Catalog Number	EDP Number	Capacity Pipe Diameter Min.	Max.	Handle Length	Chain Length	Weight Lbs.	Kg.
CW-4	15022	3/8	4	11	15	1.4	.64
CW-420	15027	3/8	4	20	15	2.3	1.0

Williams
Replacement Parts

Chain Wrenches

Chain & Pin		
Catalog Number	EDP Number	For Use On
CW-4-1	15023	CW-4, CW-420

Williams
Chain Pipe Tongs

Fed. Spec.: GGG-W-00651D-1, Type III, Class A

The "Original" Williams Chain Pipe Tong is still the favorite tong for general work. Chain swings from center, can be used on either side of jaw. Chains are listed on page 98.

Catalog Number	EDP Number	Pipe Diameter Min.	Max.	Tong Length	Chain Length	Loading Capacity (Pounds)	Weight Lbs.	Kg.
CT-10	10001	1/8	3/4	13¾	9½	5,070	2.0	.91
CT-11	10002	1/8	1½	20	13½	9,400	5.8	2.6
CT-12	10003	1/4	2½	27	17½	13,800	10.0	4.5
CT-13	10004	3/4	4	37	22½	17,600	17.0	7.7
CT-13-½	10005	1	6	44½	32	20,100	24.0	10.9
CT-14	10006	1½	8	50½	40½	22,000	31.0	14.1
CT-15	10007	2	12	64½	55½	31,000	52.0	23.6
CT-16	10008	4	18	87	74½	56,000	137.0	62.1

Williams
Replacement Parts

Chain Pipe Tongs

Jaw Set		Bolt & Nut Set		
Catalog Number	EDP Number	**Catalog Number**	EDP Number	For Use On
CT-10-4	10108	**CT-10-5**	10094	CT-10
CT-11-4	10109	**CT-11-5**	10095	CT-11
CT-12-4	10110	**CT-12-5**	10096	CT-12
CT-13-4	10111	**CT-13-5**	10097	CT-13
CT-13-½-4	10112	**CT-13-½-5**	10098	CT-13-½
CT-14-4	10113	**CT-14-5**	10099	CT-14
CT-15-4	10114	**CT-15-5**	10100	CT-15
CT-16-4	10115	**CT-16-5**	10101	CT-16

Williams
Reversible Chain Tongs

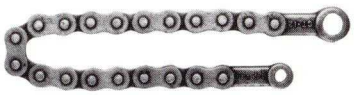
Fed. Spec.: *GGG-W-00651D-1, Type III, Class B

Williams "Reversible" Chain Tongs can tighten or loosen pipe without removing tongs or releasing chain. Removal of outer jaws makes an efficient fitting tong for narrow heads and flanges. Jaws can also be reversed. Chains are listed below.

Catalog Number	EDP Number	Pipe Diameter Min.	Pipe Diameter Max.	Tong Length	Chain Length	Loading Capacity (Pounds)	Weight Lbs.	Weight Kg.
CT-27	10261	¼	2½	27	17½	13,800	12.3	5.6
CT-37*	10275	¾	4	37	22½	17,600	19.7	8.9
CT-47*	10290	1	6	44½	32	20,100	29.3	13.3
CT-57*	10305	1½	8	50½	40½	22,100	43.0	19.5

Williams
Pipe Tong Chain Assembly

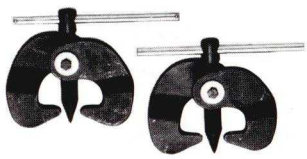
Chain is heat-treated after assembly – resulting in a 40% increase in strength and extending chain life and performance.



Catalog Number	EDP Number	Length	Loading Capacity (Pounds)	Used On:	Weight Lbs.	Weight Kg.
CT-10-1	10032	9½	5,070	CT-10	.25	.11
CT-11-1	10035	13½	9,400	CT-11, CT-31, CT-1	.91	.41
CT-12-1	10038	17½	13,800	CT-12, CT-32, CT-2	1.6	.73
CT-13-1	10041	22½	17,600	CT-13, CT-33, CT-3	3.0	1.4
CT-13-½-1	10044	32	20,000	CT-13-½, CT-33-½, CT-3-½	4.9	2.2
CT-14-1	10047	40½	22,000	CT-14, CT-34, CT-4	7.2	3.3
CT-15-1	10050	55½	31,000	CT-15, CT-35, CT-5	13.5	6.1
CT-16-1	10139	74½	56,000	CT-16	36.0	16.3
CT-27-1	10272	17½	13,800	CT-27	1.8	.82
CT-37-1	10286	22½	17,600	CT-37	3.1	1.4
CT-47-1	10301	32	20,100	CT-47	5.3	2.4
CT-57-1	10316	40 ½	22,000	CT-57	7.9	3.6

Williams
Flange-Jacks

Williams flange-jacks exert tremendous pressure with a minimum of effort. Flanges are separated smoothly and evenly with no damage to flange faces. Each EDP No. represents one pair.



Catalog Number	EDP Number	Diameter Capacity In Inches – Standard Raised Face Flanges: 125 Pound Cast Iron	150 Pound Steel	250 Pound Cast Iron	300 Pound Steel	Weight/Pair Lbs.	Weight/Pair Kg.
FJ-20	26000	2 to 20	2 to 20	1 to 12	¾ to 12	13.0	5.9
FJ-30	26001	16 to 48	18 to 24	12 to 30	12 to 24	45.0	20.4

Williams®

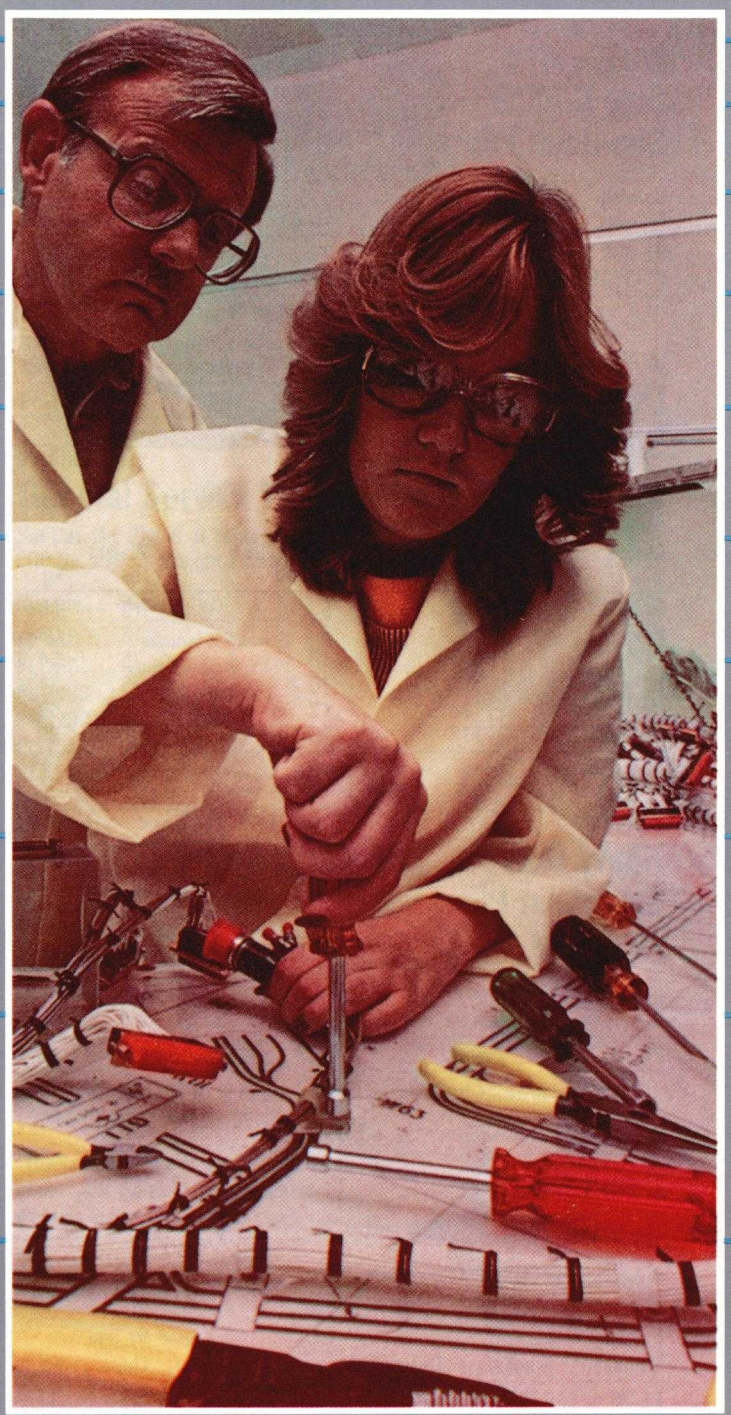
Section 9

Pliers/Screwdrivers/Hex Ball Drivers

J.H. Williams pliers are drop forged and heat treated to withstand tough use and resist wear. Screwdrivers have heat-treated alloy steel shanks. Blades are precision ground, and formed for a sure grip on fasteners. All have been manufactured with precision and ruggedness in the Williams quality tradition.

Tool Safety

- Always wear proper eye and hand protection when using pliers for cutting.
- Cushion grip and plastic handles are designed for comfort, not for electrical insulation.
- Screwdrivers are not designed for prying, chiseling, scraping, etc. Tool damage or injury could result.
- Screwdriver tips should be in good condition and closely fit fastener slot.
- Inspect tools periodically and discard worn or damaged tools.



Williams Combination Slip-Joint Pliers

Fed. Spec.: GGG-P-471E, Type II, Class 2, Style A

Catalog Number	EDP Number	Length	Weight Lbs.	Kg.
PL-6	27001	6	.44	.20
PL-8	27002	8	.53	.24
PL-10	27003	10	.88	40

Williams Side Cutting Slip-Joint Pliers

Catalog Number*	EDP Number	Length	Weight Lbs.	Kg.
PL-370	27029	7½	.53	.24
PL-370C	27090	7½	.53	.24

Williams Utility Superjoint Pliers

Fed. Spec.: GGG-471E, Type II, Class 1, Style A

Catalog Number*	EDP Number	Length	Weight Lbs.	Kg.
PL-1519	27032	5	.13	.06
PL-1519C	27033	5	.13	.06
PL-1520	27034	10	.75	.34
PL-1520C	27035	10	.75	.34
PL-1523C	27116	12	1.5	.68
PL-1524C	27117	16	2.5	.99

Williams Heavy Duty Superjoint Pliers

Parrot Nose Fed. Spec: GGG-P-471E, Type II, Class 1, Style A

Catalog Number	EDP Number	Length	Weight Lbs.	Kg.
PL-1521A	27036	10	1.0	.45

Williams Chain Nose Side Cutter-Pliers

Fed. Spec.: Short: GGG-P-471E, Type XI, Class 2, Style A; Long and Extra Long GGG-P-471E, Type XI, Class 1, Style A

Catalog Number*	EDP Number	Description	Length	Weight Lbs.	Kg.
PL-76	27014	Long Nose	6½	.29	.13
PL-76C	27015	Long Nose	6½	.29	.13
PL-77	27016	Extra Long Nose	7	.35	.16
PL-77C	27017	Extra Long Nose	7	.35	.16
PL-95C	27018	Short Nose	5	.23	.10

* C Denotes Cushion Grip

Williams Chain Nose Pliers

Fed. Spec.: Long Nose: GGG-P-471E, Type XI, Class 1, Style B

Catalog Number*	EDP Number	Description	Length	Weight Lbs.	Kg.
PLM-3C	27042	Short Nose	4½	.15	.07
PL-75	27065	Long Nose	6½	.29	.13
PL-75C	27049	Long Nose	6½	.29	.13
PL-78	27066	Extra Long Nose	7	.35	.16
PL-78C	27053	Extra Long Nose	7	.35	.16

Williams High Leverage Chain Nose Pliers

Short Length

Fed. Spec.: GGG-P-471E, Type XI, Class 2, Style B (Optional Design)

Catalog Number*	EDP Number	Length	Weight Lbs.	Kg.
PL-98	27068	8	.40	.18
PL-98C	27038	8	.40	.18

Williams Curved Chain Nose Pliers

Fed. Spec.: GGG-P-471E, Type XII, Class I

Catalog Number*	EDP Number	Length	Weight Lbs.	Kg.
PL-126	27070	5½	.29	.13
PL-126C	27020	5½	.29	.13

Williams Needle Nose Pliers

Fed. Spec.: Long Nose: GGG-P-471E: Type XII, Class 2, Style A

Catalog Number*	EDP Number	Description	Length	Weight Lbs.	Kg.
PL-74	27064	Regular Nose	7	.29	.13
PL-74C	27047	Regular Nose	7	.29	.13
PL-114CS	27046	Short Nose w/Spring	4½	.10	.05
PL-116	27069	Long Nose	6	.17	.08
PL-116C	27019	Long Nose	6	.17	.08
PL-127	27071	Long Curved Nose	5	.20	.09
PL-127C	27048	Long Curved Nose	5	.20	.09

Williams End Cutting Nippers

Fed. Spec.: GGG-N-350A, Type I, Class 2, Style A

Catalog Number*	EDP Number	Length	Weight Lbs.	Kg.
PLM-2C	27041	4½	.17	.08
PL-166	27023	6½	.52	.24
PL-167	27024	7	.71	.32

* C Denotes Cushion Grip

Williams

Diagonal Cutting Pliers

Fed. Spec.: Regular: GGG-P-468A, Type I, Class 1;
High Leverage: GGG-P-468A, Type III

Catalog Number*	EDP Number	Description	Length	Weight Lbs.	Kg.
PLM-1C	27039	Regular	4¼	.13	.06
PLM-1CS	27040	Flush Cut W/Spring	4¼	.13	.06
PL-40CS	27058	Flush Cut W/Spring	5	.25	.11
PL-44	27062	Regular	4½	.19	.09
PL-44C	27057	Regular	4½	.19	.09
PL-45	27063	Regular	5	.25	.11
PL-45C	27060	Regular	5	.25	.11
PL-46	27007	Regular	6	.40	.18
PL-46C	27008	Regular	6	.40	.18
PL-47	27009	Regular	7½	.52	.24
PL-47C	27010	Regular	7½	.52	.24
PL-57	27011	High Leverage	7	.50	.23
PL-57C	27012	High Leverage	7	.50	.23

Williams

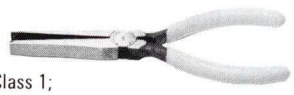
Round Nose Pliers

Fed. Spec.: GGG-P-471E, Type X

Catalog Number*	EDP Number	Length	Weight Lbs.	Kg.
PLM-5C	27044	4¾	.15	.07

Williams

Duckbill Pliers



Fed. Spec.: Regular: GGG-P-471E, Type XV, Class 1;
High Leverage: GGG-P-471D, Type XV, Class 2

Catalog Number*	EDP Number	Description	Length	Weight Lbs.	Kg.
PLM-4C	27043	Short Nose	4½	.15	.07
PL-146	27074	Regular Nose	6½	.33	.15
PL-146C	27022	Regular Nose	6½	.33	.15
PL-149	27075	High Leverage Short Nose	8	.42	.19
PL-149C	27059	High Leverage Short Nose	8	.42	.19

Williams

Cutter-Crimper

Crimps wire connectors up to 8mm, strips wire to No. 10 size.

Catalog Number*	EDP Number	Length	Weight Lbs.	Kg.
PL-218C	27091	8¼	.50	.23

Williams

Angle Nose Battery Pliers

Fed. Spec.: GGG-P-471E, Type I

Catalog Number	EDP Number	Length	Weight Lbs.	Kg.
PL-67	27013	7	.50	.23

Williams

Fence Pliers & Staple Puller

Fed. Spec.: GGG-P-471E, Type XVI

Catalog Number	EDP Number	Length	Weight Lbs.	Kg.
PL-190	27025	10	1.4	.64

*C Denotes Cushion Grip

Williams

Side Cutters

Fed. Spec.: Lineman's GGG-P-471E, Type IX,
Class 1, Style A & B

Catalog Number*	EDP Number	Description	Length	Weight Lbs.	Kg.
PL-203	27076	Electrician's	6	.50	.23
PL-203C	27054	Electrician's	6	.50	.23
PL-204	27077	Electrician's	7	.65	.30
PL-204C	27055	Electrician's	7	.65	.30
PL-205	27078	Electrician's	8	.81	.37
PL-205C	27056	Electrician's	8	.81	.37
PL-206	27026	Lineman's	6	.46	.21
PL-207	27027	Lineman's	7	.65	.30
PL-208	27028	Lineman's	8	.98	.44
PL-209	27079	New England	9	1.1	.50
PL-209X	27080	New England	9	1.1	.50

Williams

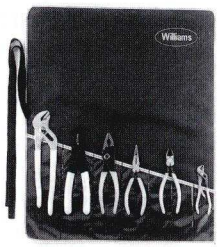
Lock Ring Pliers

Fed. Spec.: GGG-P-480C, Type III, Class 2

Catalog Number	EDP Number	Length	Weight Lbs.	Kg.
PL-1515	27030	8	.38	.17

Williams

General Service Pliers Set



Set Cat. No. PLS-6 6 Tools and Roll R-31
EDP No. 27098 Weight 2.6 Lbs. – 1.2 Kg.

Number*	Description
PL-46C	Diagonal Cutting Pl
PL-76C	Long Chain Nose Pl
PL-218C	Cutter Crimper Pl
PL-370C	Slip Jt Plier
PL-1519C	5" Superjt Pl
PL-1520C	10" Superjt Pl

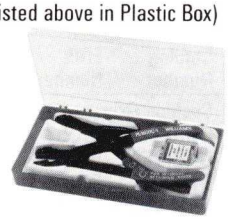
Williams

Snap Ring Pliers, Tips & Set

Catalog Number*	EDP Number	Description	Length	Weight Lbs.	Kg.
PL-1600C-1	27082	Internal Sn Rg Pl	6½	.65	.30
PL-1600C-2	27083	External Sn Rg Pl	6½	.65	.30
PL-1600C-3	27084	4 Each: 90° x .035 and 45° x .045 Dia. Angle Tips; and .045 and .060 Dia. Straight Tips			

Set Cat. No. PL-1600C 2 Pliers and 16 Tips (as listed above in Plastic Box)
EDP No. 27081 Weight .65 Lbs. – 30 Kg.

Provides the convenience and efficiency of our most popular snap ring pliers and tips in combination.



*C & X Denotes Cushion Grip

Williams
Heavy Duty Snap Ring Pliers and Tips

Catalog Number	EDP Number	Description	Length	Weight Lbs.	Kg.
PL-527	27104	Internal Sn Rg Plier	9½	.64	.29
PL-528	27105	External Sn Rg Plier	9½	.64	.29
PL-529B	27107	15° x .108 Dia. Angle Tips			
PL-529C	27108	45° x .108 Dia. Angle Tips			
PL-529D	27109	90° x .108 Dia. Angle Tips			
PL-530B	27111	15° x .120 Dia. Angle Tips			
PL-530C	27112	45° x .120 Dia. Angle Tips			
PL-530D	27113	90° x .120 Dia. Angle Tips			
PL-529A	27106	.108 Dia. Straight Tips			
PL-530A	27110	.120 Dia. Straight Tips			

Williams
Heavy Duty Snap Ring Pliers Set

Set Cat. No. PL-529 2 Pliers and 8 Pairs of Tips
(as listed above in Plastic Box)
EDP No. 27100 Weight 2.7 Lbs. – 1.2 Kg.

Williams
Screwdrivers

Electrician's Round Blade
Cushion Grip and Plastic Handle

Fed. Spec.: GGG-S-121E, Type I, Class 8, Style 2; Type I, Class 1

Catalog Number	EDP Number	Blade Length	Stock Size	Tip Width	Weight Lbs.	Kg.
Cushion Grip						
DEG-43	91156	3	3/16	3/16	.09	.04
DEG-46	91157	6	3/16	3/16	.14	.06
DEG-48	91141	8	3/16	3/16	.15	.07
DEG-50	91147	10	3/16	3/16	.17	.08
Plastic Handle						
DE-43	91055	3	3/16	3/16	.09	.04
DE-46	91056	6	3/16	3/16	.14	.06
DE-48	91140	8	3/16	3/16	.15	.07
DE-50	91057	10	3/16	3/16	.17	.08
DE-52	91058	2	1/8	1/8	.03	.01

Williams
Screwdrivers

Mechanic's Round Blade
Cushion Grip and Plastic Handle

Fed. Spec.: GGG-S-121E, Type I, Class 5 Design A

Catalog Number	EDP Number	Blade Length	Stock Size	Tip Width	Weight Lbs.	Kg.
Cushion Grip						
DRG-24	91153	4	1/4	1/4	.19	.09
DRG-26	91154	6	5/16	5/16	.33	.15
DRG-28	91155	8	3/8	3/8	.53	.24
DRG-30	91145	10	3/8	3/8	.58	.26
DRG-32	91146	12	3/8	3/8	.66	.30
Plastic Handle						
DR-24	91051	4	1/4	1/4	.19	.09
DR-26	91052	6	5/16	5/16	.33	.15
DR-28	91061	8	3/8	3/8	.53	.24
DR-30	91064	10	3/8	3/8	.58	.26
DR-32	91054	12	3/8	3/8	.66	.30

Williams
Screwdrivers

Mechanic's Square Blade
Cushion Grip and Plastic Handle

Catalog Number	EDP Number	Blade Length	Stock Size	Tip Width	Weight Lbs.	Kg.
Cushion Grip						
DSG-4	91150	4	1/4	9/32	.19	.09
DSG-6	91151	6	5/16	5/16	.38	.17
DSG-8	91152	8	3/8	3/8	.59	.27
DSG-62	91148	1¼	1/4	1/4	.14	.06
Plastic Handle						
DS-4	91046	4	1/4	9/32	.19	.09
DS-6	91048	6	5/16	5/16	.38	.17
DS-6B	91049	6	3/8	3/8	.50	.23
DS-8	91053	8	3/8	3/8	.59	.27
DS-10	90977	10	3/8	3/8	.65	.30
DS-12	91050	12	3/8	3/8	.75	.34
DS-62	91059	1¼	1/4	1/4	.14	.06

Williams
Phillips Screwdrivers

Cushion Grip and Plastic Handle

Fed. Spec.: GGG-S-121E, Type VI, Class 1

Catalog Number	EDP Number	Blade Length	Stock Size	Tip Width	Weight Lbs.	Kg.
Cushion Grip						
DPG-1	91158	3	3/16	No. 1	.06	.03
DPG-2	91159	4	1/4	No. 2	.19	.09
DPG-3	91160	6	5/16	No. 3	.31	.14
DPG-62	91149	1¼	1/4	No. 2	.09	.04
Plastic Handle						
DP-0	90978	3	1/8	No. 0	.04	.02
DP-1	91066	3	3/16	No. 1	.06	.03
DP-2	91067	4	1/4	No. 2	.19	.09
DP-3	91068	6	5/16	No. 3	.31	.14
DP-4	91069	8	3/8	No. 4	.53	.24
DP-62	91063	1¼	1/4	No. 2	.09	.04

Williams
Plastic Grip Screwdriver Sets

Set Cat. No. DSS-5 5 Tools
EDP No. 99310 Weight 2.0 Lbs. – .91 Kg.

Number	Description
DS-4	4" Mech. Sq Blade
DS-6	6" Mech. Sq Blade
DS-8	8" Mech. Sq Blade
DS-12	12" Mech. Sq Blade
DS-62	1¼" Mech. Sq Blade

Set Cat. No. DES-5 5 Tools
EDP No. 91143 Weight .7 Lbs. – .32 Kg.

Number	Description
DE-43	3" Elec. Rd Blade
DE-46	6" Elec. Rd Blade
DE-48	8" Elec. Rd Blade
DE-50	10" Elec. Rd Blade
DE-52	2" Elec. Rd Blade

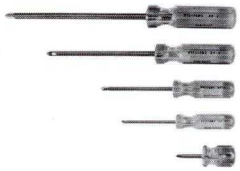
Williams

Plastic Grip Screwdriver Sets

Set Cat. No. DRS-5 5 Tools
EDP No. 91173 Weight 2.2 Lbs. – 1.0 Kg.

Number	Description
DR-24	4″ Mech. Rd Blade
DR-26	6″ Mech. Rd Blade
DR-28	8″ Mech. Rd Blade
DR-30	10″ Mech. Rd Blade
DR-32	12″ Mech. Rd Blade

Set Cat. No. DPS-5 5 Tools
EDP No. 99309 Weight 1.1 Lbs. – .5 Kg.

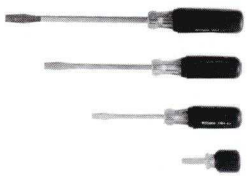


Number	Description
DP-1	3″ No. 1 Phillips
DP-2	4″ No. 2 Phillips
DP-3	6″ No. 3 Phillips
DP-4	8″ No. 4 Phillips
DP-62	1¼″ No. 2 Phillips

Williams

Cushion Grip Screwdriver Sets

Set Cat No. DSGS-4 4 Tools
EDP No. 91174 Weight 1.7 Lbs. – .77 Kg.



Number	Description
DSG-4	4″ Mech. Sq Blade
DSG-6	6″ Mech. Sq Blade
DSG-8	8″ Mech. Sq Blade
DSG-62	1¼″ Mech. Sq Blade

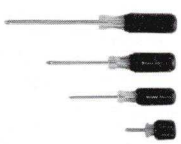
Set Cat. No. DEGS-4 4 Tools
EDP No. 91142 Weight .6 Lbs. – .27 Kg.

Number	Description
DEG-43	3″ Elec. Rd Blade
DEG-46	6″ Elec. Rd Blade
DEG-48	8″ Elec. Rd Blade
DEG-50	10″ Elec. Rd Blade

Set Cat. No. DRGS-5 5 Tools
EDP No. 91175 Weight 2.3 Lbs. – 1.0 Kg.

Number	Description
DRG-24	4″ Mech. Rd Blade
DRG-26	6″ Mech. Rd Blade
DRG-28	8″ Mech. Rd Blade
DRG-30	10″ Mech. Rd Blade
DRG-32	12″ Mech. Rd Blade

Set Cat. No. DPGS-4 4 Tools
EDP No. 91177 Weight .7 Lbs. – .3 Kg.



Number	Description
DPG-1	3″ No. 1 Phillips
DPG-2	4″ No. 2 Phillips
DPG-3	6″ No. 3 Phillips
DPG-62	1¼″ No. 2 Phillips

Williams

Nut Drivers

Hollow Shaft
Plastic Handle

Fed. Spec.: GGG-W-657C, Type I

Catalog Number	EDP Number	Opening	Length	Weight Lbs.	Kg.
ND-6	92045	3/16	6¼	.13	.06
ND-7	92046	7/32	6¼	.13	.06
ND-8	92047	¼	7¼	.17	.08
ND-9	92048	9/32	7¼	.19	.09
ND-10	92049	5/16	7¼	.19	.09
ND-11	92050	11/32	7¼	.19	.09
ND-12	92051	3/8	7¼	.19	.09
ND-14	92052	7/16	7¼	.21	.10
ND-16	92053	½	7¼	.22	.10
ND-18	92054	9/16	7¼	.23	.10

Williams

Nut Driver Sets

Set Cat. No. NDS-7 7 Tools
EDP No. 92057 Weight 1.4 Lbs. – .64 Kg.

Number	Description
ND-8	¼″ Opg
ND-9	9/32″ Opg
ND-10	5/16″ Opg
ND-11	11/32″ Opg
ND-12	3/8″ Opg
ND-14	7/16″ Opg
ND-16	½″ Opg

Set Cat. No. NDS-10 10 Tools
EDP No. 92059 Weight 1.8 Lbs. – .85 Kg.

Number	Description
ND-6	3/16″ Opg
ND-7	7/32″ Opg
ND-8	¼″ Opg
ND-9	9/32″ Opg
ND-10	5/16″ Opg
ND-11	11/32″ Opg
ND-12	3/8″ Opg
ND-14	7/16″ Opg
ND-16	½″ Opg
ND-18	9/16″ Opg

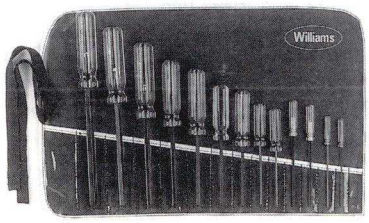
Williams
Plastic Grip Hex Ball Driver Tools

Catalog Number	EDP Number	Blade Length	Stock Size	Weight Lbs.	Kg.
HBD-050	99792	3 3/16	.050	.01	.005
HBD-2	99793	3 5/16	1/16	.01	.005
HBD-2½	99794	3½	5/64	.02	.01
HBD-3	99795	3¾	3/32	.03	.01
HBD-3½	99796	2 15/16	7/64	.04	.02
HBD-4	99797	3 3/16	1/8	.05	.02
HBD-4½	99798	3¼	9/64	.08	.03
HBD-5	99799	3½	5/32	.09	.04
HBD-6	99800	3⅞	3/16	.14	.06
HBD-7	99801	4 5/16	7/32	.16	.07
HBD-8	99802	4¾	¼	.23	.10
HBD-10	99803	5⅝	5/16	.30	.14
HBD-12	99804	6½	⅜	.41	.19

Williams
Plastic Grip Hex Ball Driver Tool Set

Set Cat. No. HBDS-13R 13 Tools and Roll R-8
EDP No. 99984 Weight 1.6 Lbs. – .73 Kg.

Number	Description
HBD-050	.050 Opg
HBD-2	1/16 Opg
HBD-2½	5/64 Opg
HBD-3	3/32 Opg
HBD-3½	7/16 Opg
HBD-4	⅛ Opg
HBD-4½	9/64 Opg
HBD-5	5/32 Opg
HBD-6	3/16 Opg
HBD-7	7/32 Opg
HBD-8	¼ Opg
HBD-10	5/16 Opg
HBD-12	⅜ Opg



Williams®

Section 10

Hammers/Punches/Chisels

Hammers

All forged hammerheads are hardened and tempered, carefully ground and fitted with selected hickory handles for proper balance and safe service.

Soft face hammers are available in a wide range of sizes from 5 ounces to 6 pounds and with 6 tip hardnesses. Handles are made of tough fiberglass and covered with a rubber grip for comfort.

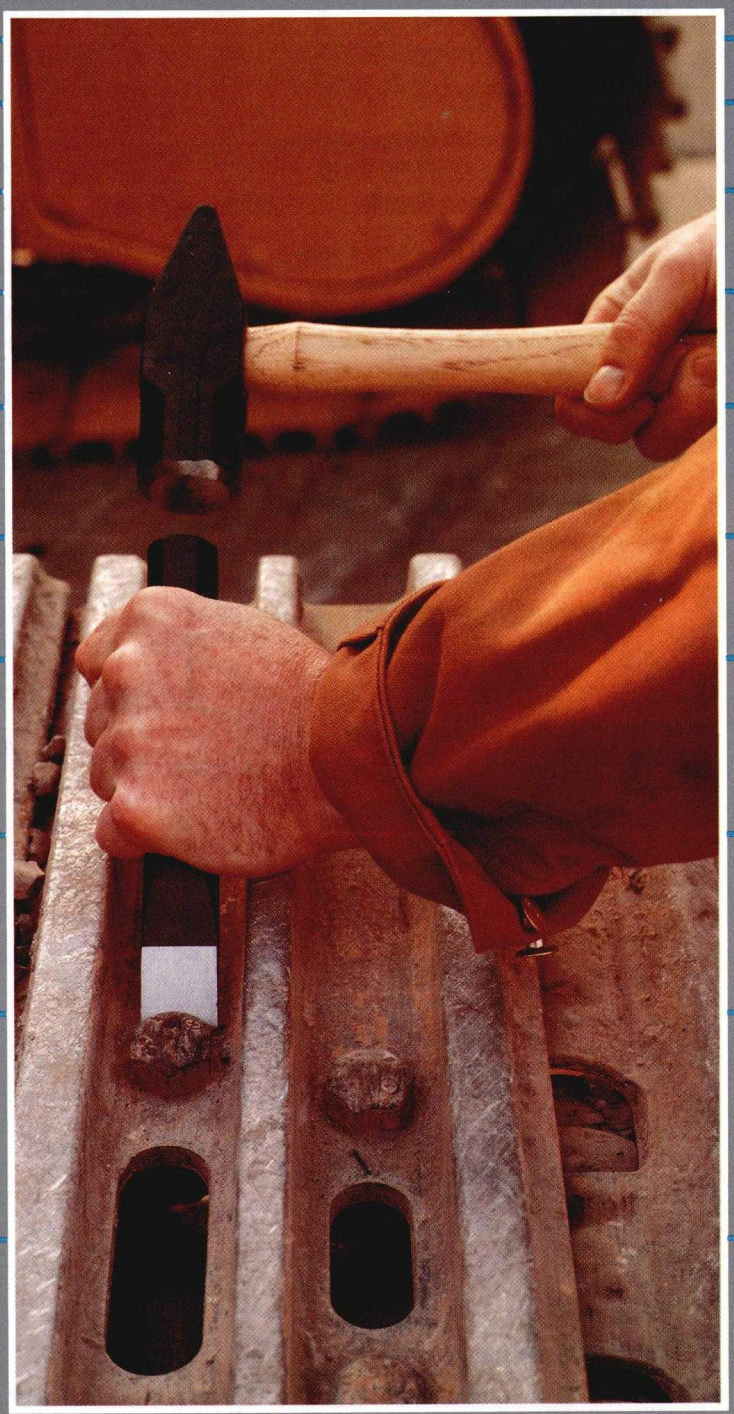
Punches and Chisels

Forged from hexagon steel and properly hardened, Williams punches and chisels are designed for long and reliable service.

Use of the right tools will help do the job properly and safely.

Hammer, Punch and Chisel Safety

- Protective clothing and equipment should be worn to safeguard against flying chips. Goggles and gloves are the minimum recommended protection.
- Never use a hammer with a loose or damaged handle. Repairs will prevent accidents.
- Hammer, punch, and chisel heads should be redressed when they become mushroomed or chipped.
- To ensure proper hardness, do not remove more than 1/16" from hammer faces, 1/2" from punch and chisel heads. Tools requiring additional stock removal should be discarded.
- Dull chisels and punches should be resharpened to prevent further chipping or breakage.
- Do not strike material harder than the tool; damage and chipping could result.
- Hammers and struck tools should be compatible and suited for the application required.
- Inspect tools periodically and repair or discard as required.



Williams

Power Drive Hammers

Special shot-loaded head delivering more striking force per blow. Cushion grip handle adds comfort to this highly durable, long lasting hammer.

Catalog Number	EDP Number	Weight Class	Length	Weight Lbs.	Kg.
HPD-1	91179	1	12	1.3	.59
HPD-2	91180	2	13	2.3	1.04
HPD-3	91181	3	14	3.5	1.59
HPD-4	91182	4	15	5.0	2.27

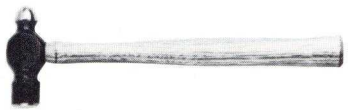
Williams

Ball Pein & Cross Pein Hammers

Hardened and tempered forged heads for driving punches, chisels and other metal work.

Ball Pein With Wood Handle

Fed. Spec.: GGG-H-86C-2, Type II, Class 1, Style A



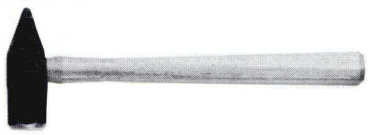
Catalog Number	EDP Number	Weight Class	Length	Weight Lbs.	Kg.
HBP-7-0	91080	2 oz	9 7/16	.23	.10
HBP-5-0	91081	4 oz	9 13/16	.33	.15
HBP-3-0	91082	8 oz	11 5/8	.64	.29
HBP-2-0	91083	12 oz	13 5/16	1.1	.50
HBP-0	91084	1 lb	14 1/4	1.3	.59
HBP-2	91085	1½ lbs	14 7/8	2.0	.91
HBP-4	91086	2 lbs	15½	2.4	1.1
HBP-6	91087	2½ lbs	16 11/16	3.2	1.5

Ball Pein With Fiberglass Handle

Fed. Spec.: GGG-H-862-2, Type II, Class 1, Style B

Catalog Number	EDP Number	Weight Class	Length	Weight Lbs.	Kg.
HP-2	91163	2 oz	10	.38	.17
HP-4	91164	4 oz	11	.56	.25
HP-8	91165	8 oz	11	.81	.37
HP-12	91166	12 oz	12½	1.1	50
HP-16	91167	1 lb	13	1.4	.64
HP-24	91168	1½ lbs	14	1.9	.86
HP-32	91169	2 lbs	14	2.4	1.1
HP-40	91170	2½ lbs	16	3.0	1.4

Cross Pein With Wood Handle



Catalog Number	EDP Number	Weight Class	Length	Weight Lbs.	Kg.
CP-3	91207	3 lbs	15	3.6	1.6

Williams

Sledge Hammers

Fed. Spec.: GGG-H-86C
Double face hardened and tempered forged heads with fire hardened hickory handles.

Catalog Number	EDP Number	Weight Class	Handle Length	Face Diameter	Weight Lbs.	Kg.
SH-2	91200	2 lb	15	1 3/8	2.6	1.2
SH-3	91201	3 lb	15	1 5/8	3.6	1.6
SH-4	91202	4 lb	15	1¾	4.6	2.1
SH-6	91203	6 lb	36	2	7.0	3.2
SH-8	91204	8 lb	36	2¼	9.0	4.1
SH-10	91205	10 lb	36	2½	11.0	5.0
SH-12	91206	12 lb	36	2 5/8	13.0	5.9

Williams

Brass Hammers

Non-sparking, non-marring brass head absorbs blow and reduces rebound. Flat-surface striking face with non-slip cushion grip.

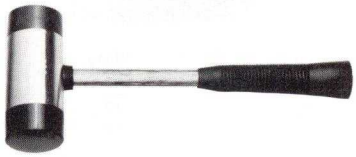
Catalog Number	EDP Number	Weight Class	Handle Length	Weight Lbs.	Kg.
HSB-1.5	91183	1.5	12	1.8	.82
HSB-2.5	91184	2.5	12	3.0	1.36
HSB-4	91185	4.0	12	5.0	2.27

Williams

Soft Face Hammers, Bodies & Tips

Hammer Bodies Only

Tough fiberglass handles are covered with a rubber grip for comfort.



Catalog Number	EDP Number	Weight Class	Head Diameter	Length	Type*	Hammer Length	Weight Lbs.	Kg.
HSF-100A	96150	5 oz	1	2	A	11	.38	.17
HSF-105A	96151	8 oz	1	2	Z	11	.56	.25
HSF-150A	96152	12 oz	1½	2⅜	A	12	1.0	.45
HSF-152A	96161	1¼ lbs†	1½	3½	Z	12	1.5	.68
HSF-155A	96153	1¼ lbs	1½	2⅜	Z	12	1.3	.59
HSF-200A	96154	1¼ lbs	2	2½	A	13½	1.5	.68
HSF-202A	96162	2½ lbs†	2	4⅝	Z	13	2.8	1.3
HSF-205A	96155	2 lbs	2	2½	Z	13½	2.3	1.0
HSF-250A	96156	2 lbs	2½	3¼	A	14½	2.5	1.1
HSF-255A	96157	4 lbs	2½	3¼	Z	14½	4.3	2.0
HSF-300A	96158	3½ lbs	3	3¾	A	14½	3.3	1.5
HSF-305A	96159	6 lbs	3	3¾	Z	14½	6.5	3.0

* A – Aluminum Alloy; Z – Zinc Alloy
† Shot Loaded

Tips For Soft Face Hammers

Six tip hardnesses from soft to extra hard and color coded for easy reference. Fits all standard screw-in type hammers.

Catalog Number	EDP Number	Hardness	Diameter	Color	Weight Lbs.	Kg.
HSF-10S	96050	Soft	1	Brown	.05	.02
HSF-10M	96051	Medium	1	Red	.05	.02
HSF-10T	96052	Tough	1	Green	.05	.02
HSF-10N	96053	Med. Hard	1	Cream	.05	.02
HSF-10H	96100	Hard	1	Black	.05	.02
HSF-10XH	96168	Extra Hard	1	Yellow	.05	.02
HSF-15S	96054	Soft	1½	Brown	.14	.06
HSF-15M	96055	Medium	1½	Red	.14	.06
HSF-15T	96056	Tough	1½	Green	.14	.06
HSF-15N	96057	Med. Hard	1½	Cream	.14	.06
HSF-15H	96102	Hard	1½	Black	.14	.06
HSF-15XH	96169	Extra Hard	1½	Yellow	.14	.06
HSF-20S	96058	Soft	2	Brown	.27	.12
HSF-20M	96059	Medium	2	Red	.27	.12
HSF-20T	96060	Tough	2	Green	.27	.12
HSF-20N	96061	Med. Hard	2	Cream	.27	.12
HSF-20H	96103	Hard	2	Black	.27	.12
HSF-20XH	96170	Extra Hard	2	Yellow	.27	.12
HSF-25S	96062	Soft	2½	Brown	.44	.20
HSF-25M	96063	Medium	2½	Red	.44	.20
HSF-25T	96064	Tough	2½	Green	.44	.20
HSF-25N	96065	Med. Hard	2½	Cream	.44	.20
HSF-25H	96104	Hard	2½	Black	.44	.20
HSF-25XH	96171	Extra Hard	2½	Yellow	.44	.20
HSF-30S	96066	Soft	3	Brown	.66	.30
HSF-30M	96067	Medium	3	Red	.66	30
HSF-30T	96068	Tough	3	Green	.66	.30
HSF-30N	96069	Med. Hard	3	Cream	.66	.30
HSF-30H	96106	Hard	3	Black	.66	.30
HSF-30XH	96172	Extra Hard	3	Yellow	.66	.30

Williams

Pinch & Roll Bars

Fully heat-treated from select alloy.

Catalog Number	EDP Number	Length	Width of Flat	Stock Size	Weight Lbs.	Kg.
Pinch Bars						
C-80	91116	14	¾	½	.75	.34
C-82	91117	15¾	1	⅝	1.3	.59
C-83	90966	19½	⅞	¾	1.5	.68
Roll Bars						
C-709	91126	9	–	⅜	.27	.12
C-715	91127	16	–	½	.84	.38
C-718	91128	18	–	⅝	1.5	.68

Williams
Punches

Made from hexagon steel, hardened and tempered to stand up under the most severe conditions.

Fed. Spec: GGG-P-831E1

Pin Punches

Catalog Number	EDP Number	Length	Point Dia.	Stock Size	Weight Lbs.	Kg.
P-3	91118	4½	3/32	5/16	.07	.03
P-4	91028	4¾	1/8	5/16	.08	.04
P-5	91119	5	5/32	5/16	.09	.04
P-6	91029	5¼	3/16	½	.14	.06
P-8	91030	5¾	¼	½	.16	.07
P-10	91120	6	5/16	½	.29	.13

Long Taper Punches

Catalog Number	EDP Number	Length	Point Dia.	Stock Size	Weight Lbs.	Kg.
P-25	91033	9	5/32	3/8	.24	.11
P-26	91034	10	3/16	½	.44	.20
P-28	91125	12	¼	5/8	.83	.38
P-28A	90964	15	¼	¾	1.6	.73
P-29	90965	16	5/16	5/8	1.1	.50

Solid Punches

Catalog Number	EDP Number	Length	Point Dia.	Stock Size	Weight Lbs.	Kg.
P-13	91031	5	3/32	½	.28	.13
P-14	91032	5	1/8	½	.28	.13
P-15	91121	5	5/32	½	.28	.13
P-16	91122	5	3/16	½	.29	.13
P-17	91123	5	¼	½	.30	.14

Prick Punches

Catalog Number	EDP Number	Length	Stock Size	Weight Lbs.	Kg.
P-30	91035	5	3/8	.14	.06
P-32	90963	6	½	.27	.12

Center Punches

Catalog Number	EDP Number	Length	Stock Size	Weight Lbs.	Kg.
P-38	90961	3⅞	¼	.05	.02
P-39	90962	4¼	5/16	.08	.04
P-40	91036	5	3/8	.14	.06
P-42	91124	6	½	.31	.14

Williams
Chisels

Forged from hexagon steel, properly hardened and tempered to stand up under the most severe conditions.

Fed. Spec.: GGG-C-313A-2

Cold Or Flat Chisels

Catalog Number	EDP Number	Length	Width of Cut	Stock Size	Weight Lbs.	Kg.
C-8	91000	5	¼	¼	.07	.03
C-10	91102	5	5/16	¼	.08	.04
C-12	91001	5½	3/8	5/16	.11	.05
C-16	91002	6	½	7/16	.24	.11
C-20	91003	6½	5/8	½	.37	.17
C-24	91004	7	¾	5/8	.61	.28
C-28	91103	7½	7/8	¾	.89	.40
C-32	91104	8	1	7/8	1.3	.59
C-36	91005	8	1⅛	1	1.7	.77

Diamond Point Chisels

Catalog Number	EDP Number	Length	Width of Cut	Stock Size	Weight Lbs.	Kg.
C-60	91112	5¾	¼	3/8	.18	.08
C-62	91113	7	3/8	5/8	.56	.25
C-64	90950	7	½	¾	.80	.36
C-66	90951	7	5/8	¾	.85	.39

Round Nose Chisels

Catalog Number	EDP Number	Length	Width of Cut	Stock Size	Weight Lbs.	Kg.
C-72	91114	6¼	¼	½	.28	.13
C-73	90952	6¼	5/16	½	.31	.14
C-74	91115	7	3/8	5/8	.52	.24
C-75	90953	8	½	¾	.83	.38

Cape Chisels

Catalog Number	EDP Number	Length	Width of Cut	Stock Size	Weight Lbs.	Kg.
C-40	91108	6	3/16	3/8	.16	.07
C-42	91109	6¼	¼	½	.27	.12
C-44	91110	6¼	5/16	½	.30	.14
C-46	91111	7	3/8	5/8	.52	.24

Extra Long Cold Chisels

Catalog Number	EDP Number	Length	Width of Cut	Stock Size	Weight Lbs.	Kg.
C-120	91105	12	5/8	½	.70	.32
C-124	91106	12	¾	¾	1.5	.68
C-125	90958	14	¾	¾	1.9	.86
C-126	90959	18	¾	¾	2.3	1.0
C-132	91107	12	1	7/8	2.0	.91
C-133	90960	18	1	7/8	3.2	1.5

Wood Chisels

Catalog Number	EDP Number	Length	Width of Cut	Stock Size	Weight Lbs.	Kg.
C-94	90954	7½	½	3/8	.22	.10
C-96	90955	8¼	¾	½	.44	.20
C-98	90956	8¾	1	5/8	.71	.32
C-99	90957	9½	1⅛	5/8	.75	.34

Rivet Buster

Catalog Number	EDP Number	Length	Width of Cut	Stock Size	Weight Lbs.	Kg.
C-422	91006	12	¾	¾	1.5	.68

Williams
Punch and Chisel Sets

Set Cat. No. PS-4 4 Punches and Roll R-24
EDP No. 99905 Weight .81 Lbs. – .37 Kg.

Number	Description
P-38	Center Punch, 3½
P-39	Center Punch, 4¼
P-40	Center Punch, 5
P-42	Center Punch, 6

Set Cat. No. CS-9 9 Chisels and Roll R-30
EDP No. 99347 Weight 6.5 Lbs. – 2.9 Kg.

Number	Description
C-8	Cold Chisel, ¼ pt
C-10	Cold Chisel, 5/16 pt
C-12	Cold Chisel, 3/8 pt
C-16	Cold Chisel, ½ pt
C-20	Cold Chisel, 5/8 pt
C-24	Cold Chisel, ¾ pt
C-28	Cold Chisel, 7/8 pt
C-32	Cold Chisel, 1 pt
C-36	Cold Chisel, 1⅛ pt

Set Cat. No. CDS-4 4 Tools and Roll R-24
EDP No. 99903 Weight 2.6 Lbs. – 1.2 Kg.

Number	Width of Cut
C-60	¼ Diamond Point Chisel
C-62	3/8 Diamond Point Chisel
C-64	½ Diamond Point Chisel
C-66	5/8 Diamond Point Chisel

Set Cat. No. CRS-4 4 Tools and Roll R-24
EDP No. 99904 Weight 2.1 Lbs. – .95 Kg.

Number	Width of Cut
C-72	¼ Round Nose Chisel
C-73	5/16 Round Nose Chisel
C-74	3/8 Round Nose Chisel
C-75	½ Round Nose Chisel

Set Cat. No. CCS-4 4 Tools and Roll R-24
EDP No. 99902 Weight 1.4 Lbs. – .64 Kg.

Number	Width of Cut
C-40	3/16 Cape Chisel
C-42	¼ Cape Chisel
C-44	5/16 Cape Chisel
C-46	3/8 Cape Chisel

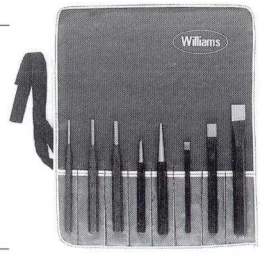
Williams
Punch and Chisel Sets

Set Cat. No. CS-8 8 Chisels and Roll R-29
EDP No. 99345 Weight 3.0 – 1.4 Kg.

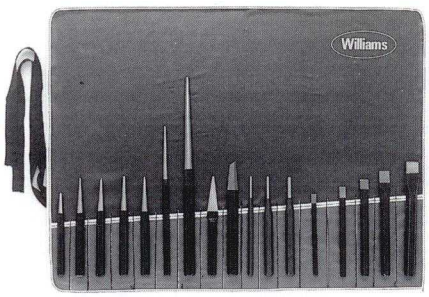
Number	Description
C-40	Cape, 6 x 3/16
C-42	Cape, 6¼ x ¼
C-44	Cape, 6¼ x 5/16
C-46	Cape, 7 x 3/8
C-60	Dia pt, 5¼ x ¼
C-62	Dia pt, 7 x 3/8
C-72	Rd Ns, 6¼ x ¼
C-74	Rd Ns, 7 x 3/8

Set Cat. No. PC-8 8 Tools and Roll R-29
EDP No. 99353 Weight 2.1 Lbs. – .91 Kg.

Number	Description
P-4	Pin, 1/8 pt
P-6	Pin, 3/16 pt
P-8	Pin, ¼ pt
P-15	Sld, 5/32 pt
P-40	Ctr Punch, 5"
C-10	Cold Chisel, 5/16 pt
C-16	Cold Chisel, ½ pt
C-24	Cold Chisel, ¾ pt



Set Cat. No. PC-17 17 Tools and Roll R-27
EDP No. 99355 Weight 5.3 Lbs. – 2.4 Kg.



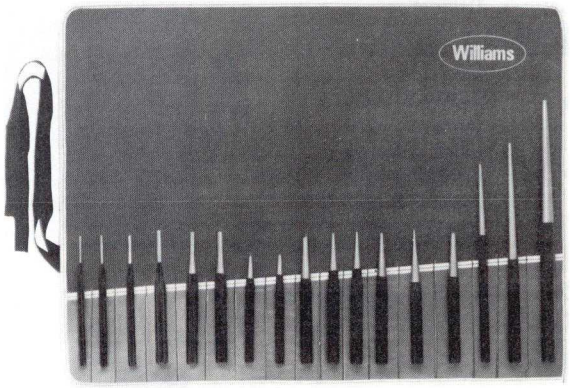
Number	Description
P-4	Pin, 1/8 pt
P-6	Pin, 3/16 pt
P-8	Pin, ¼ pt
P-14	Sld, 1/8 pt
P-15	Sld, 5/32 pt
P-16	Sld, 3/16 pt
P-25	Tpr, 5/32 pt
P-28	Tpr, ¼ pt
P-32	Prick Punch, 6"

Number	Description
P-40	Ctr Punch, 5"
C-10	Cold Chisel, 5/16 pt
C-12	Cold Chisel, 3/8 pt
C-16	Cold Chisel, ½ pt
C-20	Cold Chisel, 5/8 pt
C-24	Cold Chisel, ¾ pt
C-42	Cape, 6¼ x ¼ pt
C-62	Dia pt, 7 x 3/8 pt

Williams

Punch Set

Set Cat. No. PS-17 17 Punches and Roll R-27
EDP No. 99352 Weight 6.4 Lbs. – 2.9 Kg.



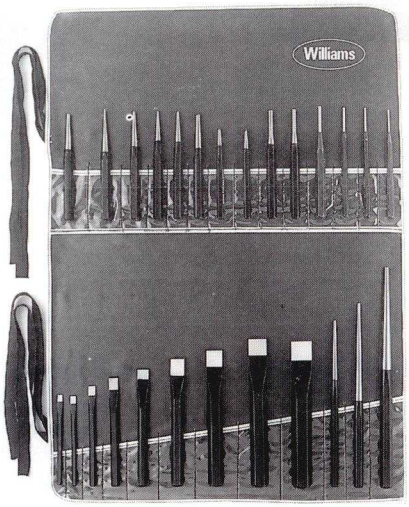
Number	Description
P-3	Pin, 3/32 pt
P-4	Pin, 1/8 pt
P-5	Pin, 5/32 pt
P-6	Pin, 3/16 pt
P-8	Pin, 1/4 pt
P-10	Pin, 5/16 pt
P-13	Sld, 3/32 pt
P-14	Sld, 1/8 pt
P-15	Sld, 5/32 pt

Number	Description
P-16	Sld, 3/16 pt
P-17	Sld, 1/4 pt
P-25	Tpr, 5/32 pt
P-26	Tpr, 3/16 pt
P-28	Tpr, 1/4 pt
P-30	Prick Punch, 5"
P-40	Ctr Punch, 5"
P-42	Ctr Punch, 6"

Williams

Punch and Chisel Set

Set Cat. No. PC-26 26 Tools and Roll R-28
EDP No. 99358 Weight 12.4 Lbs. – 5.6 Kg.



Number	Description
P-3	Pin, 3/32 pt
P-4	Pin, 1/8 pt
P-5	Pin, 5/32 pt
P-6	Pin, 3/16 pt
P-8	Pin, 1/4 pt
P-10	Pin, 5/16 pt
P-13	Sld, 3/32 pt
P-14	Sld, 1/8 pt
P-15	Sld, 5/32 pt
P-16	Sld, 3/16 pt
P-17	Sld, 1/4 pt
P-25	Tpr, 5/32 pt
P-26	Tpr, 3/16 pt

Number	Description
P-28	Tpr, 1/4 pt
P-30	Prick Punch, 5"
P-40	Ctr Punch, 5"
P-42	Ctr Punch, 6"
C-8	Cold Chisel, 1/4 pt
C-10	Cold Chisel, 5/16 pt
C-12	Cold Chisel, 3/8 pt
C-16	Cold Chisel, 1/2 pt
C-20	Cold Chisel, 5/8 pt
C-24	Cold Chisel, 3/4 pt
C-28	Cold Chisel, 7/8 pt
C-32	Cold Chisel, 1 pt
C-36	Cold Chisel, 1 1/8 pt

Williams®

Section 11

Machine Shop Tools/Eyebolts/Hoist Hook Latches

Williams machine shop tools include a wide assortment of high quality products for general production and maintenance needs. Included in this section are tool holders, boring bars and holders, bits, and other specialty items.

Machine Shop Safety

- Strap clamps must be sufficient in number, rigidly supported and tightened to hold work piece securely.
- Proper tooling/fixturing will insure a machining job is done expediently and safely.
- Approved eye protection and other protective apparel should be utilized in accordance with good shop practice.
- Inspect tools periodically and discard worn or damaged tools.

Eyebolt Safety

Williams standard forged eyebolts are threaded and offered in a broad range of sizes and capacity.

To prevent eyebolt failure, match load requirements to eyebolt specifications.

- Do not undercut or reduce shank sizes.
- Load slowly and evenly. Avoid shock loading.
- Use angle loading only as a last resort. Check for reduced capacity.
- Periodically inspect eyebolts for bending, wear or cracks. Discard properly to prevent re-use of defective material.
- Eyebolts are carefully heat-treated. Welding, burning or exposure to high temperatures may adversely affect performance.
- Extreme caution should be exercised when eyebolts are used below 0°F. Shock loading at low temperatures may cause premature failure.

Hoist Hook Latches

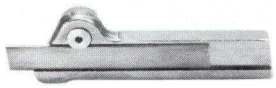
- Williams Safety latches will fit all standard hooks.
- Safety latches should be used at all times, and must be in good operating condition.

Williams
Cut-Off & Side Tool Holders

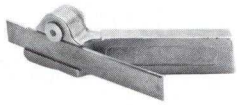
Fed. Spec.: 00-H-581A, Type III, Class 1, 2, 3, Style A

Furnished with finished cutting-off blade and wrench. The cam-fastening is always rapid and positive. The greater the pressure, the tighter the lock.

One holder takes both cutting-off and side blades which are high speed steel, hardened and ground on one end ready for use. Blades are interchangeable in holders of corresponding size.



Straight



Right Hand

Left Hand

Straight		Right Hand		Left Hand						
Catalog Number	EDP Number	**Catalog Number**	EDP Number	**Catalog Number**	EDP Number	Holder Size	Blade Size	Lathe Swing	Weight Lbs.	Kg.
TH-19	70209	**TH-29-R**	70210	**TH-29-L**	70211	5/16 x 13/16	3/32 x 1/2	6 to 8	.47	.21
TH-20	70212	**TH-30-R**	70213	**TH-30-L**	70214	3/8 x 31/32	3/32 x 5/8	9 to 10	.73	.33
TH-21	70215	**TH-31-R**	70216	**TH-31-L**	70217	1/2 x 1 3/16	1/8 x 3/4	11 to 14	1.4	.64
TH-22	70218	**TH-32-R**	70219	**TH-32-L**	70220	5/8 x 1 3/8	1/8 x 7/8	14 to 16	2.2	1.0
TH-23	70221	**TH-33-R**	70222	**TH-33-L**	70223	3/4 x 1 5/8	3/16 x 1	16	3.5	1.6
TH-24	70224	**TH-34-R**	70225	**TH-34-L**	70226	7/8 x 1 3/4	3/16 x 1 1/8	18	4.7	2.1
TH-25	70227	—	—	—	—	7/8 x 1 3/4	1/4 x 1 1/8	18	5.0	2.3

Williams
Replacement Blades
Cut-Off & Side Tool Holders

Fed. Spec.: 00-C-851A, Type II, Style 2, Grade A, Finish A, Class M-2 (HSS);
00-C-851A, Type II, Style 2, Grade B, Finish A, Class M-34 (Cobalt)

For straight, right and left hand cutting-off tool holders.

Ground Cobalt M-34 Straight & RH*		Ground HSS M-2 Straight & RH*		HSS M-2 Straight & RH		Left Hand				
Catalog Number	EDP Number	**Catalog Number**	EDP Number	**Catalog Number**	EDP Number	**Catalog Number**	EDP Number	Blade Size	Weight Lbs.	Kg.
2540	71470	**2410**	71430	**2401**	71180	**2451**	71122	3/32 x 1/2	.05	.023
2541	71471	**2411**	71431	**2402**	71182	**2452**	71123	3/32 x 5/8	.07	.032
2542	71472	**2412**	71432	**2403**	71184	**2453**	71124	1/8 x 3/4	.07	.032
2543	71473	**2413**	71433	**2404**	71186	**2454**	71125	1/8 x 7/8	.10	.045
2544	71474	**2414**	71434	**2405**	71188	**2455**	71126	3/16 x 1	.15	.068
2545	71475	**2415**	71435	**2406**	71190	**2456**	71127	3/16 x 1 1/8	.27	.122
2546	71476	**2416**	71436	**2407**	71192	—	—	1/4 x 1 1/8	.34	.154
2547	71477	—	—	—	—	—	—	1/4 x 1 3/8	.46	.208

*Ground blades must be ground on opposite end for left hand use.

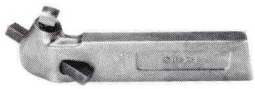
Williams

Tool Holders For Square Bits

Precision broached tool hole is parallel to the holder shank so square bits have maximum cutting edge support. The bit hole provides an accurate and rigid seat for the cutter bit. Regular tool holders are furnished with one unground high speed steel bit. Carbide bit tool holders do not include carbide bit. For carbide bit selection see page 114.

Straight

Right Hand



Left Hand

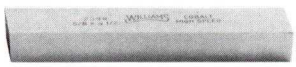
Straight		Right Hand		Left Hand						
Catalog Number	EDP Number	**Catalog Number**	EDP Number	**Catalog Number**	EDP Number	Holder Size	Bit Size (Sq.)	Lathe Swing	Weight Lbs.	Kg.
Regular Bit Tool Holder – Fed. Spec.: OO-H-581A, Type II, Class 1, 2, 3										
TH-0-S	70009	**TH-0-R**	70008	**TH-0-L**	70007	3/8 x 7/8 x 5	1/4	10 to 12	.67	.30
TH-1-S	70012	**TH-1-R**	70011	**TH-1-L**	70010	1/2 x 1 1/8 x 6	5/16	14 to 16	1.3	.59
TH-2-S	70015	**TH-2-R**	70014	**TH-2-L**	70013	5/8 x 1 3/8 x 7	3/8	16 to 18	2.1	.95
TH-4-S	70021	**TH-4-R**	70020	**TH-4-L**	70019	7/8 x 1 3/4 x 9	1/2	24 to 36	4.8	2.2
TH-5-S	70024	**TH-5-R**	70023	**TH-5-L**	70022	1 x 2 x 11	5/8	—	7.7	3.5
Carbide Bit Tool Holder – Fed. Spec.: OO-H-581A, Type I, Class 1, 2, 3										
THT-0-S	70098	**THT-0-R**	70097	**THT-0-L**	70096	3/8 x 15/16 x 6	1/4	9 to 10	.71	.32
THT-1-S	70101	**THT-1-R**	70100	**THT-1-L**	70099	1/2 x 1 1/4 x 7	5/16	11 to 14	1.5	.68
THT-2-S	70104	**THT-2-R**	70103	**THT-2-L**	70102	5/8 x 1 1/2 x 8	3/8	14 to 16	2.4	1.1
THT-3-S	70107	**THT-3-R**	70106	**THT-3-L**	70105	3/4 x 1 3/4 x 9	7/16	16	3.7	1.7
THT-4-S	70110	**THT-4-R**	70109	**THT-4-L**	70108	7/8 x 1 7/8 x 10	1/2	18	5.0	2.3
THT-5-S	70113	**THT-5-R**	70112	**THT-5-L**	70111	1 x 2 1/8 x 12	5/8	20 to 24	8.2	3.7

Williams

Replacement Bits

Square Bit Tool Holders

Fed. Spec.: OO-C-581A, Type I, Style 1, Grade A, Class M2; OO-C-851A, Type I, Style 1, Grade B, Class M-34



Cobalt M-34		High Speed Steel M-2						
		Ground		Unground				
Catalog Number	EDP Number	**Catalog Number**	EDP Number	**Catalog Number**	EDP Number	Bit Size Square x Length	Weight Lbs.	Kg.
—	—	—	—	**2321**	71063	3/16 x 1	.01	.005
—	—	—	—	**2301**	71361	3/16 x 2	.02	.009
2388	71437	**2376**	71422	—	—	3/16 x 2 1/2	.02	.009
—	—	—	—	**2323**	71064	1/4 x 1 7/32	.02	.009
2389	71438	**2377**	71423	**2302**	71363	1/4 x 2 1/2	.05	.023
—	—	—	—	**2325**	71065	5/16 x 1 7/16	.04	.018
2390	71439	**2378**	71424	**2303**	71364	5/16 x 2 1/2	.07	.032
—	—	—	—	**2327**	71058	3/8 x 1 13/16	.07	.032
—	—	—	—	**2328**	71059	3/8 x 2 1/16	.08	.036
2391	71440	**2379**	71425	**2304**	71365	3/8 x 3	.13	.059
—	—	—	—	**2329**	71060	7/16 x 2 3/16	.11	.049
2392	71441	**2380**	71426	**2305**	71367	7/16 x 3 1/2	.19	.086
—	—	—	—	**2331**	71061	1/2 x 2 1/2	.19	.086
2393	71442	**2381**	71427	**2306**	71369	1/2 x 4	.30	.136
2394	71443	**2382**	71428	**2307**	71357	5/8 x 4 1/2	.52	.236
2395	71444	**2383**	71429	—	—	3/4 x 5	.83	.376
2397	71464	—	—	—	—	1 x 7	2.0	.907

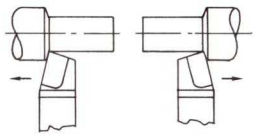
Williams
Carbide Tipped Tool Bits

These bits offer a flexible range of carbide tooling to shops with conventional lathe equipment. They are designed primarily for use in Williams carbide holders, except the 3/4" square shank sizes which are most often used in open side tool posts. Tips and shanks are accurately ground for clearance angles.

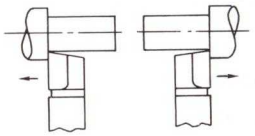
Carbide Grades

Grade C-2 – Utility Grade. For general purpose roughing, and finishing on cast iron and non-ferrous materials. Medium wear resistance and shock resistance; medium-low crater resistance. Rockwell A hardness, 92.0 average transverse rupture. Strength 275,000 PSI. Same as old CQ2.

Grade C-6 – Premium Grade. For heavy duty roughing on steel. Medium wear resistance; high cutting-temperature resistance; high cutting-load shock resistance. Rockwell A hardness, 91.3 average transverse rupture. Strength 275,000 PSI. Same as old CY16.


Style BR

Style BL


Style AR

Style AL

Style C

Style D

Style E

Style BR & BL

Style AR & AL

Grades Stocked

C-2 Catalog Number	C-2 EDP Number	C-6 Catalog Number	C-6 EDP Number	Shank Size	Tip Size	Nose R	Weight Lbs.	Weight Kg.
Style "C" Chamfering								
C-4-C2	71292	C-4-C6	71564	1/4 x 2	1/16 x 1/4 x 5/16	—	.03	.01
C-5-C2	71293	C-5-C6	71565	5/16 x 2 1/4	3/32 x 5/16 x 3/8	—	.06	.03
C-6-C2	71294	C-6-C6	71566	3/8 x 2 1/2	3/32 x 3/8 x 1/2	—	.07	.03
C-7-C2	71295	C-7-C6	71567	7/16 x 3	3/32 x 7/16 x 1/2	—	.16	.07
C-8-C2	71296	C-8-C6	71568	1/2 x 3 1/2	1/8 x 1/2 x 1/2	—	.25	.11
C-10-C2	71297	C-10-C6	71569	5/8 x 4	5/32 x 5/8 x 5/8	—	.44	.20
C-12-C2	71555	C-12-C6	71570	3/4 x 4 1/2	3/16 x 3/4 x 3/4	—	.63	.29
Style "D" – Undercutting & Chamfering								
D-4-C2	71309	D-4-C6	71640	1/4 x 2	1/16 x 1/4 x 5/16	—	.03	.01
D-5-C2	71310	D-5-C6	71641	5/16 x 2 1/4	3/32 x 5/16 x 3/8	—	.06	.03
D-6-C2	71311	D-6-C6	71642	3/8 x 2 1/2	3/32 x 3/8 x 1/2	—	.07	.03
D-7-C2	71312	D-7-C6	71643	7/16 x 3	3/32 x 7/16 x 1/2	—	.16	.07
D-8-C2	71313	D-8-C6	71644	1/2 x 3 1/2	1/8 x 1/2 x 1/2	—	.25	.11
D-10-C2	71314	D-10-C6	71645	5/8 x 4	5/32 x 5/8 x 5/8	—	.44	.20
D-12-C2	71632	D-12-C6	71646	3/4 x 4 1/2	3/16 x 3/4 x 3/4	—	.63	.29
Style E – 60° Threading								
E-4-C2	71513	—	—	1/4 x 2	1/16 x 1/4 x 5/16	—	.03	.01
E-5-C2	71514	E-5-C6	71650	5/16 x 2 1/4	3/32 x 5/16 x 3/8	—	.06	.03
E-6-C2	71515	E-6-C6	71651	3/8 x 2 1/2	3/32 x 3/8 x 1/2	—	.07	.03
E-8-C2	71516	E-8-C6	71652	1/2 x 3 1/2	1/8 x 1/2 x 9/16	—	.25	.11
E-10-C2	71647	E-10-C6	71653	5/8 x 4	5/32 x 5/8 x 5/8	—	.44	.20
E-12-C2	71648	E-12-C6	71654	3/4 x 4 1/2	3/16 x 3/4 x 3/4	—	.63	.29
Styles BR & BL – Turning (Lead Angle) – Fed. Spec.: 00-C-00845								
BR-4-C2	71501	BR-4-C6	71618	1/4 x 2	3/32 x 3/16 x 5/16	1/64	.03	.01
BR-5-C2	71502	BR-5-C6	71619	5/16 x 2 1/4	3/32 x 1/4 x 1/2	1/64	.06	.03
BR-6-C2	71503	BR-6-C6	71620	3/8 x 2 1/2	3/32 x 1/4 x 1/2	1/64	.07	.03
BR-7-C2	71504	BR-7-C6	71621	7/16 x 3	3/32 x 1/4 x 1/2	1/32	.16	.07
BR-8-C2	71505	BR-8-C6	71622	1/2 x 3 1/2	1/8 x 5/16 x 5/8	1/32	.25	.11
BR-10-C2	71506	BR-10-C6	71623	5/8 x 4	5/32 x 3/8 x 3/4	1/32	.44	.20
BR-12-C2	71602	BR-12-C6	71624	3/4 x 4 1/2	3/16 x 7/16 x 13/16	1/32	.63	.24
BL-4-C2	71507	BL-4-C6	71625	1/4 x 2	3/32 x 3/16 x 5/16	1/64	.03	.01
BL-5-C2	71508	BL-5-C6	71626	5/16 x 2 1/4	3/32 x 1/4 x 1/2	1/64	.06	.03
BL-6-C2	71509	BL-6-C6	71627	3/8 x 2 1/2	3/32 x 1/4 x 1/2	1/64	.07	.03
BL-7-C2	71510	BL-7-C6	71628	7/16 x 3	3/32 x 1/4 x 1/2	1/32	.16	.07
BL-8-C2	71511	BL-8-C6	71629	1/2 x 3 1/2	1/8 x 5/16 x 5/8	1/32	.25	.11
BL-10-C2	71512	BL-10-C6	71630	5/8 x 4	5/32 x 3/8 x 3/4	1/32	.44	.30
BL-12-C2	71604	BL-12-C6	71631	3/4 x 4 1/2	3/16 x 7/16 x 13/16	1/32	.63	.29
Style AR & AL – Shouldering – Fed. Spec.: 00-C-00845								
AR-4-C2	71298	AR-4-C6	71588	1/4 x 2	3/32 x 3/16 x 5/16	1/64	.03	.01
AR-5-C2	71299	AR-5-C6	71589	5/16 x 2 1/4	3/32 x 1/4 x 1/2	1/64	.06	.03
AR-6-C2	71300	AR-6-C6	71590	3/8 x 2 1/2	3/32 x 1/4 x 1/2	1/64	.07	.03
AR-7-C2	71301	AR-7-C6	71591	7/16 x 3	3/32 x 1/4 x 1/2	1/32	.16	.07
AR-8-C2	71302	AR-8-C6	71592	1/2 x 3 1/2	1/8 x 5/16 x 5/8	1/32	.25	.11
AR-10-C2	71303	AR-10-C6	71593	5/8 x 4	5/32 x 3/8 x 3/4	1/32	.44	.20
AR-12-C2	71571	AR-12-C6	71594	3/4 x 4 1/2	3/16 x 7/16 x 13/16	1/32	.63	.29
AL-4-C2	71304	AL-4-C6	71595	1/4 x 2	3/32 x 3/16 x 5/16	1/64	.03	.01
AL-5-C2	71315	AL-5-C6	71596	5/16 x 2 1/4	3/32 x 1/4 x 1/2	1/64	.06	.03
AL-6-C2	71305	AL-6-C6	71597	3/8 x 2 1/2	3/32 x 1/4 x 1/2	1/64	.07	.03
AL-7-C2	71306	AL-7-C6	71598	7/16 x 3	3/32 x 1/4 x 1/2	1/32	.16	.07
AL-8-C2	71307	AL-8-C6	71599	1/2 x 3 1/2	1/8 x 5/16 x 5/8	1/32	.25	.11
AL-10-C2	71308	AL-10-C6	71600	5/8 x 4	5/32 x 3/8 x 3/4	1/32	.44	.20
AL-12-C2	71573	AL-12-C6	71601	3/4 x 4 1/2	3/16 x 7/16 x 13/16	1/32	.63	.29

Williams
Boring Bars

Fed. Spec.: 00-H-581A, Type VI

Bars are supplied with one 90°, one 45° bit and wrench.

Catalog Number	EDP Number	Bar Size	For Tool Holder Number	Uses Bit Number	Weight Lbs.	Kg.
Plain Bar						
TH-0-BX	70591	½ Dia. x 8½	TH-00BX Thru TH-11X, TH-0-BB & TH-1-B	2321, 2301	.44	.20
TH-0-8X	70592	⅝ Dia. x 10⅛	TH-8X Thru TH-11X, TH-2-B	2321, 2301	.88	.40
TH-0-9X	70593	¾ Dia. x 12⅛	TH-9X Thru TH-11X, TH-0-BB, TH-1-B, TH-3-B	2323, 2302	1.5	.68
TH-0-10X	70594	15⁄16 Dia. x 14⅛	TH-10X & TH-11X, TH-2-B & TH-4-B	2325, 2303	2.8	1.3
TH-0-11X	70595	1⅛ Dia. x 16¾	TH-11X, TH-1-B & TH-3-B	2327, 2304	4.8	2.2
TH-0-12X	70596	1 5⁄16 Dia. x 20	TH-2-B & TH-4-B	2328, 2304	7.5	3.4
TH-0-13X	70597	1½ Dia. x 23½	TH-3-B	2329, 2305	12.0	5.4

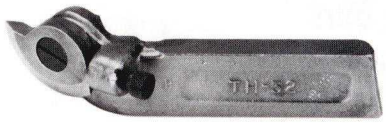
For replacement bits see page 113.

Williams
Solid Boring Bars

Fed. Spec.: 00-H-581A, Type VI, Class 1, Style A

Catalog Number	EDP Number	Size	For Holder Number	Weight Lbs.	Kg.
8140	71075	⅛ dia. x 4	TH-15 & TH-16	.013	.006
8141	71076	3⁄16 dia. x 4½	TH-15 to TH-17	.038	.017
8142	71077	¼ dia. x 5	TH-15 to TH-17	.075	.034
8143	71078	5⁄16 dia. x 6	TH-15 to TH-18	.137	.062
8144	71079	⅜ dia. x 7	TH-16 to TH-18	.245	.111
8145	71080	7⁄16 dia. x 8	TH-17 & TH-18	.350	.159

Williams
Threading Tool Holders & Cutter



Fed. Spec.: 00-H-581A, Type IV, Class 1

Hardened stop screw provides precise adjustment for accurate thread cutting. The high speed steel cutter is ground to an included angle of 60°. Furnished with cutter and wrench.

Holder & Cutter

Catalog Number	EDP Number	Holder Size	Lathe Swing	Weight Lbs.	Kg.
TH-00-T	70250	5/16 x 3/4 x 5	7 to 10	.61	.28
TH-50	70251	3/8 x 7/8 x 5	10 to 12	.80	.36
TH-51	70252	1/2 x 1 1/8 x 5 3/4	14 to 16	1.3	.59
TH-52	70253	5/8 x 1 3/8 x 7	16 to 18	2.3	1.0
TH-53	70254	3/4 x 1 5/8 x 8	18 to 20	3.3	1.5

Williams
Replacement Parts

Cutter

Catalog Number	EDP Number	To Fit Holder	Weight Lbs.	Kg.
8151	71199	TH-00-T, TH-50	.04	.02
8153	71225	TH-51	.08	.04
8155	71226	TH-52	.17	.08
8157	71230	TH-53	.20	.09

Williams
Knurling Tool Holders

Fed. Spec.: 00-H-581A, Type V, Class 1, 2

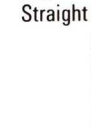
Self centering holders can be used with any pattern Williams knurl.

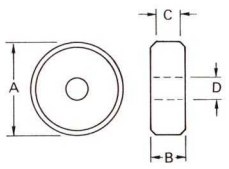
Catalog Number	Item Number	Holder Size	Knurl Size Dia.	Lathe Swing	Weight Lbs.	Kg.
Self-Centering Head – Supplied With One Pair Of Medium "Diamond" Pattern Knurls						
TH-00-K	70044	5/16 x 3/4 x 5	5/8	7 to 10	.53	.24
TH-0-K	70047	3/8 x 7/8 x 5 1/2	5/8	10 to 12	.63	.29
TH-1-K	70050	1/2 x 1 1/8 x 6 5/8	3/4	14 to 16	1.3	.59
TH-2-K	70053	5/8 x 1 3/8 x 7 1/2	3/4	16 to 18	1.9	.86
Revolving Head – Supplied With Fine, Medium, And Coarse "Diamond" Pattern Knurls						
TH-3-K-0	70042	3/8 x 7/8 x 5 1/2	5/8	10 to 12	1.0	.45
TH-3-K-1	70055	1/2 x 1 1/8 x 6 5/8	3/4	14 to 16	1.8	.82
TH-3-K-2	70056	5/8 x 1 3/8 x 6 5/8	3/4	16 to 18	2.2	1.0

Williams
Replacement Knurls

Diamond Pattern

Straight Line Pattern





Fed. Spec.: 00-H-581A, Type V, Class 1, 2

Williams knurls being accurately cut, assure sharp and perfect teeth in the knurled product. All knurls are made from high speed steel and are specially hardened and tempered. Furnished in pairs to fit standard makes of knurling tools.

Catalog Number	EDP Number	Teeth Per Inch	Diametral Pitch	Dimensions A	B	C	D	For Knurling Tool Holder Number	Weight/Pair Lbs.	Kg.
"Diamond" Pattern										
8227	70490	33 Fine	104	5/8	5/16	3/16	7/32	TH-00-K, TH-0-K, TH-3-K-0	.05	.023
8224	70491	20 Medium	63	5/8	5/16	3/16	7/32	TH-00-K, TH-0-K, TH-3-K-0	.05	.023
8221	70492	13 Coarse	41	5/8	5/16	3/16	7/32	TH-00-K, TH-0-K, TH-3-K-0	.05	.023
8228	70496	33 Fine	104	3/4	3/8	1/4	1/4	TH-1-K, TH-2-K, TH-3-K-1, TH-3-K-2	08	.036
8225	70497	20 Medium	63	3/4	3/8	1/4	1/4	TH-1-K, TH-2-K, TH-3-K-1, TH-3-K-2	.08	.036
8222	70498	13 Coarse	41	3/4	3/8	1/4	1/4	TH-1-K, TH-2-K, TH-3-K-1, TH-3-K-2	.08	.036
"Straight Line" Pattern										
8267	70544	35 Fine	110	5/8	5/16	3/16	7/32	TH-00-K, TH-0-K, TH-3-K-0	.05	.023
8264	70545	20 Medium	63	5/8	5/16	3/16	7/32	TH-00-K, TH-0-K, TH-3-K-0	.05	.023
8261	70546	13 Coarse	41	5/8	5/16	3/16	7/32	TH-00-K, TH-0-K, TH-3-K-0	.05	.023
8268	70550	35 Fine	110	3/4	3/8	1/4	1/4	TH-1-K, TH-2-K, TH-3-K-1, TH-3-K-2	.08	.036
8265	70551	20 Medium	63	3/4	3/8	1/4	1/4	TH-1-K, TH-2-K, TH-3-K-1, TH-3-K-2	.08	.036
8262	70552	13 Coarse	41	3/4	3/8	1/4	1/4	TH-1-K, TH-2-K, TH-3-K-1, TH-3-K-2	.08	.036

Williams
Hex Nuts For T-Slot Bolts

For use with Williams T-slot bolts. Threaded unified coarse and case hardened.

Catalog Number	EDP Number	Bolt Dia.	Threads Per Inch	Thickness Inches	Distance Across Flats	Weight Lbs.	Kg.
HN-3	76090	3/8	16	23/64	11/16	.04	.02
HN-4	76091	1/2	13	31/64	7/8	.09	.04
HN-5	76092	5/8	11	39/64	1 1/16	.14	.06
HN-6	76093	3/4	10	47/64	1 1/4	.24	.11
HN-7	77002	7/8	9	55/64	1 7/16	.34	.15

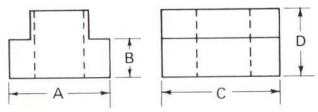
Williams
Washers For T-Slot Bolts

Extra thick to resist bending with beveled edges on one side.

Catalog Number	EDP Number	Bolt Dia.	Outside Diameter	Thickness	Weight Lbs.	Kg.
W-3	76086	3/8	7/8	1/8	.02	.01
W-4	76087	1/2	1	3/16	.03	.01
W-5	76088	5/8	1 1/4	1/4	.06	.03
W-6	76089	3/4	1 1/2	1/4	.06	.03
W-7	77022	7/8	1 3/4	1/4	.15	.07

Williams
T-Slot Nuts

For setting-up work on planers, shapers, milling machines, etc. where studs are to be used in place of T-slot bolts. Threaded unified coarse.



Catalog Number	EDP Number	T-Slot Size	Stud Dia.	Threads/ Inch	A	B	C	D	Weight Lbs.	Kg.
TN-5	76096	5/8	1/2	13	1 1/8	13/32	1 1/4	3/4	.18	.08
TN-6	76097	3/4	5/8	11	1 5/16	17/32	1 1/2	7/8	.29	.13
TN-7	76098	7/8	3/4	10	1 1/2	9/16	1 3/4	1	.42	.19
TN-8	76099	1	7/8	9	1 3/4	5/8	2	1 1/8	.63	.29
TN-10	77000	1 1/4	1	8	2	7/8	2 3/8	1 11/32	1.1	.50

Williams
T-Slot Bolts

For setting up work on planers, shapers, milling machines. Threaded unified coarse. Will not turn in table or break out table slots.

Catalog Number	EDP Number	Length	Weight Lbs.	Kg.
3/8" T-Slot Size				
TS3-1	76011	1	.05	.02
TS3-1-1/2	76013	1 1/2	.06	.03
TS3-2	76015	2	.08	.04
TS3-2-1/2	76017	2 1/2	.09	.04
TS3-3	76018	3	.11	.05
TS3-4	76020	4	.14	.06
TS3-6	76024	6	.19	.09
1/2" T-Slot Size				
TS4-1-1/2	76030	1 1/2	.16	.07
TS-4-2	76032	2	.18	.08
TS4-2-1/2	76034	2 1/2	.21	.10
TS4-3	76036	3	.24	.11
TS4-4	76038	4	.29	.13
TS4-5	76040	5	.35	.16
TS4-6	76041	6	.40	.18
TS4-8	76043	8	.49	.22
TS4-10	76044	10	.61	.28
5/8" T-Slot Size				
TS5-2	76047	2	.29	.13
TS5-2-1/2	76049	2 1/2	.33	.15
TS5-3	76051	3	.37	.17
TS5-3-1/2	76052	3 1/2	.42	.19
TS5-4	76053	4	.47	.21
TS5-5	76055	5	.56	.25
TS5-6	76057	6	.64	.29
TS5-8	76059	8	.75	.34
TS5-10	76061	10	.96	.44

Catalog Number	EDP Number	Length	Weight Lbs.	Kg.
3/4" T-Slot Size				
TS6-3	76069	3	.60	.27
TS6-3-1/2	76070	3 1/2	.67	.30
TS6-4	76071	4	.73	.33
TS6-5	76073	5	.84	.38
TS6-6	76075	6	.96	.44
TS6-8	76077	8	1.2	.54
TS6-10	76078	10	1.4	.64
TS6-18	76082	18	2.4	1.1
7/8" T-Slot Size				
TS7-4	77026	4	.96	.44
TS7-5	77028	5	1.0	.45
TS7-6	77030	6	1.2	.54
TS7-8	77032	8	1.4	.64
TS7-10	77034	10	1.7	.77
TS7-18	77038	18	2.6	1.2
1" T-Slot Size				
TS8-4	77008	4	1.2	.54
TS8-5	77009	5	1.4	.64
TS8-6	77010	6	1.6	.73
TS8-8	77012	8	1.9	.86
TS8-10	77014	10	2.4	1.1

Williams
Set-Up Tools

Designed for long life, Williams strap clamps are available in several patterns. On planer, lathe, drill press, boring and milling machine work they are time saving and effective.

Set-Up Wedges

Catalog Number	Length	EDP Number	Width	Thick End	Weight Lbs.	Kg.
WG-3	3	77004	1	1/4	.13	.06
WG-5	5	77005	1	1/2	.31	.14
WG-6	6	77006	1 1/4	3/4	.63	.29

Strap Clamps – Universal Adjustable Pattern

Catalog Number	Length	EDP Number	Width of Clamp	Adjustment	Slot Bolt. Size Inches	Weight Lbs.	Kg.
SC-21	5 1/16	85037	1 5/8	2 1/4	5/8	1.3	.59
SC-22	8	85038	2 1/8	4	3/4	3.1	1.4
SC-23	12	85039	2 3/4	6 1/4	1	9.8	4.5

Strap Clamps – "U" Pattern

Catalog Number	Length	EDP Number	Width	Thickness	Slot Length	Width	Finger Dimensions	Weight Lbs.	Kg.
SC-64	4 1/2	85014	1 3/4	3/4	3 1/2	11/16	1/2 x 1/2	1.0	.45
SC-66	6 5/8	85015	2	7/8	5 1/2	11/16	5/8 x 5/8	2.0	.91
SC-68	8 3/4	85016	2 1/2	1 1/8	7 3/8	13/16	3/4 x 3/4	4.0	1.8
SC-110	10	85021	2 3/4	1 1/4	9	15/16	15/16 x 15/16	5.8	2.6
SC-112	12	85020	3 1/4	1 3/4	11	1 1/16	1 1/16 x 1 1/16	12.5	5.7

Strap Clamps – Adjustable Step Pattern

Catalog Number	Length	EDP Number	Width Ends	Width Center	Thickness Ends	Thickness Center	Slot Length	Slot Width	Weight Lbs.	Kg.
SC-54A	4	85010	1 3/16	1 5/8	1/2	3/4	1 3/8	1 1/16	1.1	.50
SC-56A	6	85011	1 1/4	1 3/4	9/16	7/8	2 1/16	1 1/16	2.0	.91
SC-58A	8	85012	1 1/2	2 1/8	3/4	1 1/8	2 13/16	1 3/16	3.9	1.8
SC-59A	10	85013	1 3/4	2 1/2	15/16	1 3/8	3 11/16	1 5/16	7.1	3.2

Strap Clamps – Plain Slot Pattern

Catalog Number	Length	EDP Number	Width Ends	Width Center	Thickness Ends	Thickness Center	Slot Length	Slot Width	Weight Lbs.	Kg.
SC-54	4	85006	1 3/16	1 5/8	1/2	3/4	1 3/8	1 1/16	1.0	.45
SC-56	6	85007	1 1/4	1 3/4	9/16	7/8	2 1/16	1 1/16	1.8	.82
SC-58	8	85008	1 1/2	2 1/8	3/4	1 1/8	2 13/16	1 3/16	3.8	1.7
SC-59	10	85009	1 3/4	2 1/2	15/16	1 3/8	3 11/16	1 5/16	6.6	3.0

Strap Clamps – Finger Pattern/Single End

Catalog Number	Length	EDP Number	Width Flat End	Width Center	Thickness Flat End	Thickness Center	Slot Length	Slot Width	Weight Lbs.	Kg.
SC-44	4	85003	1 3/16	1 5/8	7/16	3/4	1 3/8	1 1/16	.83	.38
SC-46	6	85004	1 1/4	1 3/4	1/2	7/8	1 15/16	1 1/16	1.6	.73
SC-48	8	85005	1 1/2	2 1/8	5/8	1 1/8	2 9/16	1 3/16	3.3	1.5

Strap Clamps – Goose Neck Pattern

Catalog Number	Length	EDP Number	Width Ends	Width Center	Thickness Ends	Thickness Center	Slot Length	Slot Width	Weight Lbs.	Kg.
SC-74	4	85017	1 3/16	1 5/8	3/8 & 1/2	3/4	15/16	1 1/16	1.0	.45
SC-76	6	85018	1 1/4	1 3/4	7/16 & 9/16	7/8	1 11/16	1 1/16	2.0	.91
SC-78	8	85019	1 1/2	2 1/8	9/16 & 3/4	1 1/8	2 7/16	1 3/16	4.2	1.9

Williams

Screw Extractors

Fed. Spec.: GGG-E-936C, Type I, Class 1, Style A

For quick, easy removal of broken screws, bolts, studs or other threaded forms. A hole is first drilled into the broken stem and the correct size Williams extractor is then inserted.

Catalog Number	EDP Number	Size Drill to Use	For Use On Bolt Sizes	Small End Size	Shank Size	Length of Flute	Extreme Length	Weight Lbs.	Kg.
EX-21	91215	1/8	1/4 to 5/16	3/32	3/16	1 3/8	2 5/16	.02	.01
EX-22	91216	3/16	3/8	1/8	3/16	1 1/2	2 5/8	.02	01
EX-23	91217	15/64	7/16	9/64	1/4	1 1/2	2 7/8	.04	.02
EX-24	91218	5/16	1/2 to 9/16	7/32	5/16	1 1/2	3	.06	.03
EX-25	91219	3/8	5/8	1/4	3/8	1 3/4	3 1/4	.11	.05
EX-26	91220	15/32	3/4	5/16	1/2	2 1/8	3 7/8	.19	.09
EX-27	91221	9/16	7/8	3/8	1/2	2	4 1/2	.31	.14
EX-28	91222	21/32	1 to 1 1/8	7/16	5/8	2 1/2	4 7/8	.50	.22
EX-29	91223	13/16	1 1/4 to 1 3/8	1/2	3/4	2 1/2	5 3/8	.75	.34

Williams

Screw Extractor Sets

Set Cat. No. EXS-30 6 Tools and Roll R-1
EDP No. 91224 Weight .50 Lbs. – .22 Kg.

Number	For Use On
EX-21	1/4 to 5/16 bolts
EX-22	3/8 bolts
EX-23	7/16 bolts
EX-24	1/2 to 9/16 bolts
EX-25	5/8 bolts
EX-26	3/4 bolts

Williams

Hoist Hook Latches

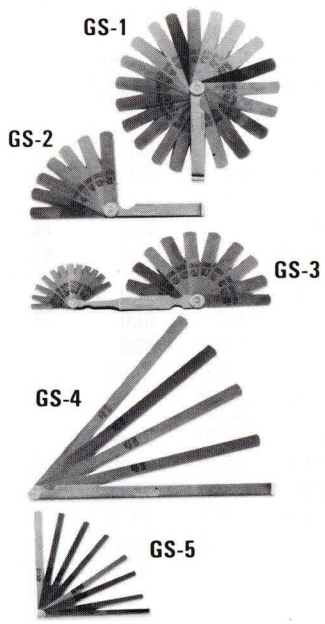
Rugged latches have powerful, non-corrosive snap springs and will fit all standard hoist hooks.

Catalog Number	EDP Number	To Fit Hook Numbers	Weight Lbs.	Kg.
HSL-2	82260	HH-2, HH-22	.03	.01
HSL-3	82261	HH-3, HH-23	.04	.02
HSL-4	82262	HH-4, HH-24	.05	.02
HSL-5	82263	HH-5, HH-25	.05	.02
HSL-6/7	82264	HH-6, HH-26, HH-7, HH-27	.13	.05
HSL-8	82266	HH-8, HH-28	.20	.09
HSL-9	82267	HH-9, HH-29	.30	.14
HSL-10/11	82269	HH-10, HH-30, HH-11, HH-31	.42	.19
HSL-12/13	82271	HH-12, HH-32, HH-13, HH-33	.63	.29
HSL-14/15	82273	HH-14, HH-34, HH-15, HH-35	1.18	.54

Williams

Feeler Gauge Sets

Sets have knurled lock-nuts which allow the user to select the required blade size and lock it into position.



Set Cat. No. GS-1 Master Feeler Gauge
EDP No. 99298 Weight .22 Lbs. – .10 Kg.
Fed. Spec.: GGG-G-17B, TYPE VIII, CLASS 1, STYLE A, B
25 blades 3 5/16 x 1/2" in the following thicknesses: .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .018, .020, .022, .024, .025, .028, .030, .032, & .035.

Set Cat. No. GS-2 Standard Feeler Gauge
EDP No. 99299 Weight .09 Lbs. – .04 Kg.
Fed. Spec.: GGG-G-17B, Type VIII, Class 1, Style A, B
10 blades 3 5/16 x 1/2" in the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .012 & .015.

Set Cat. No. GS-3 Combination Feeler Gauge
EDP No. 99300 Weight .13 Lbs. – .06 Kg.
10 blades 3 x 1/2" in the following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .013, .015; 12 blades 1 3/4 x 1/4" in the following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022 & .025.

Set Cat. No. GS-4 Piston Feeler Gauge
EDP No. 99301 Weight .16 Lbs. – .07 Kg.
8 blades 9 x 1/2" in the following thicknesses: .002, .003, .004, .005, .006, .008, .010 and .015.

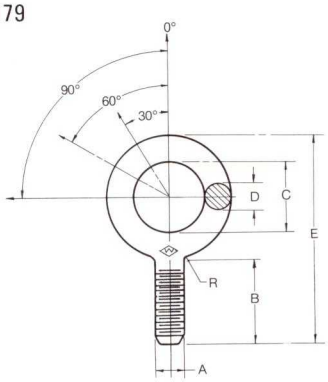
Set Cat. No. GS-5 Brake Feeler Gauge
EDP No. 99302 Weight .03 Lbs. – .01 Kg.
Fed. Spec.: GGG-G-17B, Type VIII, Class 1, Style A, B
9 blades 4 x 1/4" in the following thicknesses: .002, .004, .005, .006, .007, .008, .010, .012 & .015.

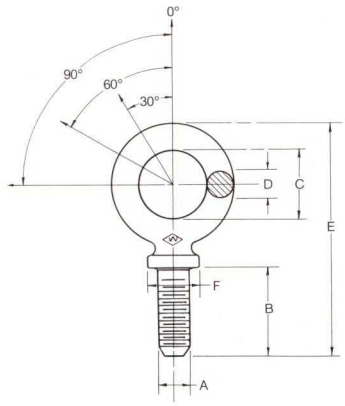
Williams
Drop Forged Eye Bolts

Forged from special quality fine grain carbon steel, hardened and tempered for strength and toughness. Each lot is tested and inspected to insure conformance to specifications. Different shank lengths, materials, testing or inspections can be furnished on custom orders. Eye bolts are available with UNC Class 2A thread only.

Properties For Williams Eye Bolts

Tensile Strength	65,000 psi min.
Yield Strength	50,000 psi min.
Elongation	30% min.
Reduction of Area	60% min.
BHN	149-179



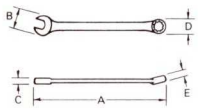


Threaded Eyebolt Catalog Number	EDP Number	Dia. A	Threads Per Inch	B	C	D	E	F	Ultimate Strength (Pounds)	Angular Loading Rated Capacity (Pounds) 0°	30°	60°	90°	Weight Lbs.	Kg.
Plain Pattern – ANSI B18.15 1985															
EB-1T	81347	1/4	20	1	3/4	7/32	1 3/16	—	2,500	440	65	NR	NR	.05	.02
EB-2T	81348	5/16	18	1 1/8	7/8	9/32	2 9/16	—	4,500	720	180	NR	NR	.09	.04
EB-3T	81317	3/8	16	1 1/4	1	21/64	2 29/32	—	6,500	1,080	315	170	140	.18	.08
EB-4T	81318	7/16	14	1 3/8	1 3/32	3/8	3 7/32	—	9,000	1,480	415	250	195	.26	.12
EB-5T	81319	1/2	13	1 1/2	1 3/16	7/16	3 9/16	—	12,000	1,960	660	390	325	.35	.16
EB-6T	81320	9/16	12	1 5/8	1 9/32	1/2	3 29/32	—	15,000	3,140	1,160	670	550	.53	.24
EB-7T	81321	5/8	11	1 3/4	1 3/8	9/16	4 1/4	—	20,000	3,140	1,160	670	550	.72	.33
EB-8T	81322	3/4	10	2	1 1/2	21/32	4 13/16	—	25,000	4,600	1,950	1,095	960	1.2	.54
EB-9T	81323	7/8	9	2 1/4	1 11/16	25/32	5 1/2	—	35,000	6,400	2,575	1,605	1,360	1.6	.73
EB-10T	81324	1	8	2 1/2	1 13/16	7/8	6 1/16	—	45,000	8,400	3,425	2,225	1,965	2.2	1.0
EB-11T	81325	1 1/8	7	2 3/4	2	1	6 3/4	—	60,000	10,600	4,120	2,660	2,300	3.2	1.5
EB-12T	81326	1 1/4	7	3	2 3/16	1 1/8	7 7/16	—	75,000	13,400	5,270	3,355	2,985	4.5	2.0
EB-14T	81327	1 1/2	6	3 1/2	2 1/2	1 11/32	8 11/16	—	105,000	19,600	8,005	5,130	4,615	7.2	3.3
EB-15T	81328	1 3/4	5	3 3/4	2 7/8	1 19/32	9 13/16	—	140,000	28,000	11,524	7,500	6,700	11.6	5.3
EB-16T	81329	2	4 1/2	4	3 1/4	1 13/16	10 7/8	—	190,000	38,000	15,210	9,915	8,880	16.1	7.3
EB-17T	81330	2 1/2	4	5	4	2 9/32	13 9/16	—	280,000	56,000	24,500	16,800	14,000	33.0	15.0
Shoulder Pattern – Fed. Spec.: ANSI B18.15 1985															
EB-21T	81332	1/4	20	1	3/4	7/32	2 13/32	7/32	2,500	440	70	NR	NR	.05	.02
EB-22T	81333	5/16	18	1 1/8	7/8	9/32	2 13/16	19/32	4,500	720	170	NR	NR	.11	.05
EB-23T	81334	3/8	16	1 1/4	1	21/64	3 15/64	11/16	6,500	1,080	335	185	150	.21	.10
EB-24T	81335	7/16	14	1 3/8	1 3/32	3/8	3 39/64	25/32	9,000	1,480	435	275	215	.28	.13
EB-25T	81336	1/2	13	1 1/2	1 3/16	7/16	3 31/32	7/8	12,000	1,960	695	460	365	.43	.20
EB-26T	81337	9/16	12	1 5/8	1 9/32	1/2	4 23/64	31/32	15,000	3,140	1,220	735	600	.58	.26
EB-27T	81338	5/8	11	1 3/4	1 3/8	9/16	4 23/32	1 1/16	20,000	3,140	1,220	735	600	.77	.35
EB-28T	81339	3/4	10	2	1 1/2	21/32	5 5/16	1 1/4	25,000	4,600	1,710	1,005	880	1.2	.54
EB-29T	81340	7/8	9	2 1/4	1 11/16	25/32	6 1/16	1 7/16	35,000	6,400	2,710	1,750	1,485	1.9	.86
EB-30T	81341	1	8	2 1/2	1 13/16	7/8	6 11/16	1 9/16	45,000	8,400	3,595	2,450	2,160	2.6	1.2
EB-31T	81342	1 1/8	7	2 3/4	2	1	7 15/32	1 11/16	60,000	10,600	4,235	3,380	2,985	3.7	1.7
EB-32T	81343	1 1/4	7	3	2 3/16	1 1/8	8 5/32	1 7/8	75,000	13,400	5,540	3,675	3,285	4.9	2.2
EB-34T	81344	1 1/2	6	3 1/2	2 1/2	1 11/32	9 17/32	2 3/16	105,000	19,600	8,410	5,590	5,080	8.0	3.6
EB-35T	81345	1 3/4	5	3 3/4	2 7/8	1 19/32	10 11/16	2 1/2	140,000	28,000	12,100	8,250	7,370	13.3	6.0
EB-36T	81346	2	4 1/2	4	3 1/4	1 13/16	11 15/16	2 7/8	190,000	38,000	15,970	10,910	9,740	19.2	8.7

NR =Not recommended

Combination Wrenches

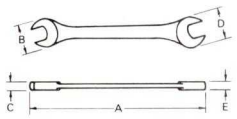
Open End and 15° Offset Box Opening



Catalog Number	Openings	Length A	Open End Width B	Open End Thick. C	Box End Width D	Box End Thick. E
Fractional - 12 Point Box - Chrome						
1158	1/4	5	35/64	5/32	13/32	3/16
1159	5/16	5 1/2	11/16	3/16	17/32	7/32
1159A	11/32	5 1/2	11/16	3/16	17/32	7/32
1160	3/8	6	51/64	13/64	37/64	1/4
1161	7/16	6 5/8	29/32	7/32	21/32	5/16
1162	1/2	7 3/16	1 1/32	1/4	47/64	21/64
1163	9/16	7 15/16	1 5/32	4/32	53/64	11/32
1163A	19/32	8 3/4	1 9/32	19/64	59/64	3/8
1164	5/8	8 3/4	1 9/32	19/64	59/64	3/8
1165	11/16	9 5/8	1 13/32	5/16	1 1/64	13/32
1166	3/4	10 5/8	1 17/32	11/32	1 9/32	7/16
1166A	25/32	11 9/16	1 5/8	23/64	1 11/64	15/32
1167A	13/16	11 9/16	1 5/8	23/64	1 11/64	15/32
1167	7/8	12 1 1/16	1 3/4	3/8	1 1/4	1/2
1168	15/16	13 7/8	1 55/64	25/64	1 21/64	9/16
1170	1	15 1/8	1 31/32	13/32	1 27/64	5/8
1171	1 1/16	16 1/4	2 3/32	27/64	1 1/2	43/64
1172	1 1/8	17 7/16	2 7/32	7/16	1 9/16	21/32
1173	1 1/4	18 1 1/16	2 15/32	15/32	1 25/32	3/4
1174	1 5/16	20	2 19/32	1/2	1 27/32	25/32
1176A	1 3/8	21 5/16	2 61/64	9/16	2 3/32	27/32
1176	1 7/16	21 5/16	2 61/64	9/16	2 3/32	27/32
1178	1 1/2	21 5/16	2 61/64	9/16	2 3/32	27/32
1180	1 5/8	22 3/4	3 13/64	5/8	2 5/16	29/32
1182	1 11/16	22 3/4	3 13/64	5/8	2 5/16	29/32
1184	1 3/4	26	3 15/16	3/4	2 7/8	1 1/16
1186	1 13/16	26	3 15/16	3/4	2 7/8	1 1/16
1188	1 7/8	26	3 15/16	3/4	2 7/8	1 1/16
1190	2	26	3 15/16	3/4	2 7/8	1 1/16
1191	2 1/16	26	3 15/16	3/4	2 7/8	1 1/16
1192	2 1/8	28	4 13/32	27/32	3 1/8	1 1/8
1193	2 3/16	28	4 13/32	27/32	3 1/8	1 1/8
1194	2 1/4	28	4 13/32	27/32	3 1/8	1 1/8
1195	2 3/8	30	5	15/16	3 3/8	1 5/16
1197	2 1/2	30	5	15/16	3 3/8	1 5/16
Fractional - 12 Point Box - Black						
BXOE-8	1/4	5	35/64	5/32	13/32	3/16
BXOE-10	5/16	5 1/2	11/16	3/16	17/32	7/32
BXOE-12	3/8	6	51/64	13/64	37/64	1/4
BXOE-14	7/16	6 5/8	29/32	7/32	21/32	5/16
BXOE-16	1/2	7 3/16	1 1/32	1/4	47/64	21/64
BXOE-18	9/16	7 15/16	1 5/32	9/32	53/64	11/32
BXOE-20	5/8	8 3/4	1 9/32	19/64	59/64	3/8
BXOE-22	11/16	9 5/8	1 13/32	5/16	1 1/64	13/32
BXOE-24	3/4	10 5/8	1 17/32	11/32	1 9/32	7/16
BXOE-26	13/16	11 9/16	1 5/8	23/64	1 11/64	15/32
BXOE-28	7/8	12 1 1/16	1 3/4	3/8	1 1/4	1/2
BXOE-30	15/16	13 7/8	1 55/64	25/64	1 21/64	9/16
BXOE-32	1	15 1/8	1 31/32	13/32	1 27/64	5/8
BXOE-34	1 1/16	16 1/4	2 3/32	27/64	1 1/2	43/64
BXOE-36	1 1/8	17 7/16	2 7/32	7/16	1 9/16	21/32
BXOE-40	1 1/4	18 1 1/16	2 15/32	15/32	1 25/32	3/4
Metric - 12 Point Box - Chrome						
XOEM-7	7	5	35/64	5/32	13/32	3/16
XOEM-8	8	5 1/2	11/16	3/16	17/32	7/32
XOEM-9	9	5 1/2	11/16	3/16	17/32	7/32
XOEM-10	10	6	51/64	13/64	37/64	1/4
XOEM-11	11	6 5/8	29/32	7/32	21/32	5/16
XOEM-12	12	7 3/16	1 1/32	1/4	47/64	21/64
XOEM-13	13	7 3/16	1 1/32	1/4	47/64	21/64
XOEM-14	14	7 15/16	1 5/32	9/32	53/64	11/32
XOEM-15	15	8 3/4	1 9/32	19/64	59/64	3/8
XOEM-16	16	8 3/4	1 9/32	19/64	59/64	3/8
XOEM-17	17	9 5/8	1 13/32	5/16	1 1/64	13/32
XOEM-18	18	9 5/8	1 13/32	5/16	1 1/64	13/32
XOEM-19	19	10 5/8	1 17/32	11/32	1 9/32	7/16
XOEM-20	20	11 9/16	1 5/8	23/64	1 11/64	15/32
XOEM-21	21	11 9/16	1 5/8	23/64	1 11/64	15/32
XOEM-22	22	12 1 1/16	1 3/4	3/8	1 1/4	1/2
XOEM-23	23	13 7/8	1 55/64	25/64	1 21/64	9/16
XOEM-24	24	13 7/8	1 55/64	25/64	1 21/64	9/16
XOEM-25	25	15 1/8	1 31/32	13/32	1 27/64	5/8
XOEM-27	27	16 1/4	2 3/32	17/64	1 1/2	43/64
XOEM-30	30	18 1 1/16	2 15/32	15/32	1 25/32	3/4
XOEM-32	32	18 1 1/16	2 15/32	15/32	1 25/32	3/4
XOEM-34	34	20	2 19/32	1/2	1 27/32	25/32
XOEM-36	36	21 5/16	2 61/64	9/16	2 3/32	27/32
Fractional - 6 Point Box - Chrome						
XOE-610	5/16	5 1/2	11/16	3/16	17/32	7/32
XOE-612	3/8	6	51/64	13/64	37/64	1/4
XOE-614	7/16	6 5/8	29/32	7/32	21/32	5/16
XOE-616	1/2	7 3/16	1 1/32	1/4	47/64	21/64
XOE-618	9/16	7 15/16	1 5/32	9/32	53/64	11/32
XOE-620	5/8	8 3/4	1 9/32	19/64	59/64	3/8
XOE-622	11/16	9 5/8	1 13/32	5/16	1 1/64	13/32
XOE-624	3/4	10 5/8	1 17/32	11/32	1 3/32	7/16

Open End Wrenches

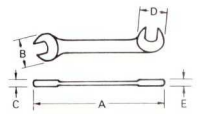
Double Head, Open End, 15° Angle



Catalog Number	Openings	Length A	Small Head Width B	Small Head Thick. C	Large Head Width D	Large Head Thick. E
Fractional - Chrome						
1020	1/4 x 5/16	4 1/2	19/32	5/32	3/4	5/32
1721	5/16 x 3/8	4 1/2	19/32	5/32	3/4	5/32
1723	3/8 x 7/16	4 7/8	3/4	13/64	29/32	13/64
1725	7/16 x 1/2	5 3/4	29/32	1/4	1 1/8	1/4
1725B	1/2 x 9/16	6 1/8	1 1/16	1/4	1 1/8	1/4
1727	9/16 x 5/8	6 3/4	1 1/8	17/64	1 1/4	17/64
1027B	5/8 x 11/16	7 1/2	1 3/16	19/64	1 7/16	19/64
1731	3/4 x 13/16	9 5/8	1 5/8	11/32	1 3/4	11/32
1731A	3/4 x 7/8	9 5/8	1 5/8	11/32	1 3/4	11/32
1033A	7/8 x 15/16	10 5/8	1 11/16	3/8	1 15/16	3/8
1033C	15/16 x 1	11 1/2	1 7/8	9/16	2 1/16	7/16
1037	1 1/16 x 1 1/4	13 3/4	2 1/4	1/2	2 5/8	1/2
1037A	1 1/8 x 1 5/16	13 3/4	2 1/4	1/2	2 5/8	1/2
1039D	1 3/8 x 1 1/2	15 9/16	2 3/4	35/64	3 3/64	35/64
1041	1 7/16 x 1 5/8	17	2 3/4	5/8	3 1/4	5/8
Fractional - Black						
BW-720	1/4 x 5/16	4 1/2	19/32	5/32	3/4	5/32
BW-721	5/16 x 3/8	4 1/2	19/32	5/32	3/4	5/32
BW-723	3/8 x 7/16	4 7/8	3/4	13/64	29/32	13/64
BW-725	7/16 x 1/2	5 3/4	29/32	1/4	1 1/8	1/4
BW-725B	1/2 x 9/16	6 1/8	1 1/16	1/4	1 1/8	1/4
BW-727	9/16 x 5/8	6 3/4	1 1/8	17/64	1 1/4	17/64
BW-27B	5/8 x 11/16	7 1/2	1 3/16	19/64	1 7/16	19/64
BW-731	3/4 x 13/16	9 5/8	1 5/8	11/32	1 3/4	11/32
BW-731A	3/4 x 7/8	9 5/8	1 5/8	11/32	1 3/4	11/32
BW-33A	7/8 x 15/16	10 5/8	1 11/16	3/8	1 15/16	3/8
BW-33C	15/16 x 1	11 1/2	1 7/8	7/16	2 1/8	7/16
BW-37	1 1/16 x 1 1/4	13 3/4	2 1/4	1/2	2 5/8	1/2
BW-37A	1 1/8 x 1 5/16	13 3/4	2 1/4	1/2	2 5/8	1/2
BW-39D	1 3/8 x 1 1/2	15 9/16	2 3/4	35/64	3 3/64	35/64
BW-41	1 7/16 x 1 5/8	17	2 3/4	5/8	3 1/4	5/8
Metric - Chrome						
EWM-0607	6 x 7	4 1/2	19/32	5/32	3/4	5/32
EWM-0809	8 x 9	4 1/2	19/32	5/32	3/4	5/32
EWM-1011	10 x 11	4 1/2	19/32	13/64	29/32	13/64
EWM-1213	12 x 13	5 3/4	29/32	1/4	1 1/8	1/4
EWM-1415	14 x 15	6 1/8	1 1/16	1/4	1 1/8	1/4
EWM-1617	16 x 17	7 1/2	1 3/16	19/64	1 7/16	19/64
EWM-1819	18 x 19	9 5/8	1 5/8	11/32	1 3/4	11/32
EWM-2122	21 x 22	9 5/8	1 5/8	11/32	1 3/4	11/32
EWM-2427	24 x 27	10 5/8	1 11/16	3/8	1 15/16	3/8
EWM-3032	30 x 32	13 3/4	2 1/4	1/2	2 5/8	1/2

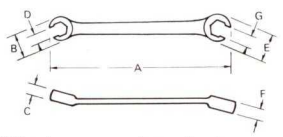
Miniature Open End Wrenches

Double Head, Open Ends
Chrome Finish



Catalog Number	Openings	Length A	15° Head Width B	15° Head Thick. C	75° Head Width D	75° Head Thick. E
1112	3/16	3	15/32	1/8	15/32	1/8
1113	13/64	3	15/32	1/8	15/32	1/8
1114	7/32	3	15/32	1/8	15/32	1/8
1115	15/64	3	15/32	1/8	15/32	1/8
1116	1/4	3 3/4	9/16	5/32	9/16	5/32
1118	9/32	3 3/4	9/16	5/32	9/16	5/32
1120	5/16	3 3/4	9/16	5/32	9/16	5/32
1122	11/32	3 3/4	23/32	5/32	23/32	5/32
1124	3/8	3 3/4	23/32	5/32	23/32	5/32
1128	7/16	4 1/2	31/32	5/32	31/32	5/32
1132	1/2	4 1/2	31/32	5/32	31/32	5/32
1136	9/16	5 1/2	1 5/32	3/16	1 5/32	3/16
1140	5/8	5 1/2	1 5/32	3/16	1 5/32	3/16

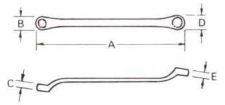
Flare Nut Wrenches
Double Head Split Box, 15° Offset Opening



Catalog Number	Openings	Length A	Small Head Dia. B	Small Head Width C	Small Head Slot D	Large Head Dia. E	Large Head Width F	Large Head Slot G
Fractional - 6 and 12 Point - Chrome								
XFN-1214	3/8 x 7/16	6 1/4	51/64	11/32	1/4	7/8	3/8	9/32
XFN-1618	1/2 x 9/16	7 1/2	31/32	3/8	3/8	1 1/16	7/16	7/16
XFN-2022	5/8 x 11/16	8 1/2	1 7/64	7/16	15/32	1 15/64	1/2	9/16
XFN-2432	3/4 x 1 *	9 3/16	1 15/64	1/2	9/16	1 19/32	5/8	3/4
XFN-2836	7/8 x 1 1/8*	9 7/8	1 13/32	9/16	11/16	1 3/4	11/16	27/32
Metric - 6 Point - Chrome								
MFN-911	9x11	6 1/4	51/64	11/32	1/4	7/8	3/8	9/32
MFN-1012	10x12	6 1/4	51/64	11/32	1/4	7/8	3/8	9/32
MFN-1314	13x14	7 1/2	31/32	3/8	3/8	1 1/16	7/16	7/16
MFN-1517	15x17	8 1/2	1 7/64	7/16	1 5/32	1 15/64	1/2	9/16

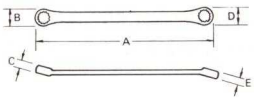
*12 Pt Opening

Box Wrenches
Double Head Modified Offset



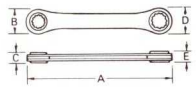
Catalog Number	Openings	Length A	Small Head Width B	Small Head Thick. C	Large Head Width D	Large Head Thick. E
Fractional - Regular Length - 12 Point - Chrome						
8721	5/16 x 3/8	7 1/2	33/64	15/64	5/8	17/64
8723	3/8 x 7/16	7 3/4	37/64	1/4	21/32	9/32
8725	7/16 x 1/2	8 1/16	21/32	19/64	47/64	21/64
8725B	1/2 x 9/16	8 11/16	47/64	21/64	53/64	11/32
8727	9/16 x 5/8	9 3/8	53/64	11/32	29/32	3/8
8727A	5/8 x 11/16	9 3/4	29/32	3/8	1	13/32
8729	5/8 x 3/4	10 1/8	29/32	13/32	1 5/64	7/16
8029B	11/16 x 3/4	10 1/2	1	13/32	1 5/64	7/16
8731A	3/4 x 7/8	12	1 5/64	15/32	1 1/4	1/2
8031B	25/32 x 13/16	12 1/2	1 1/8	31/64	1 11/64	33/64
8731B	13/16 x 7/8	12 7/8	1 11/64	1/2	1 1/4	17/32
8033A	7/8 x 15/16	13 3/8	1 1/4	17/32	1 21/64	9/16
8033C	15/16 x 1	14 3/8	1 21/64	37/64	1 13/32	5/8
8037	1 1/16 x 1/14	17 1/4	1 1/2	11/16	1 25/32	3/4
8037A	1 1/8 x 1 5/16	18	1 9/16	23/32	1 27/32	25/32

Box Wrenches
Double Head 15° Offsets



Catalog Number	Openings	Length A	Small Head Width B	Small Head Thick. C	Large Head Width D	Large Head Thick. E
Fractional - Regular Length - 12 Point - Chrome						
7723	3/8 x 7/16	7 3/4	37/64	1/4	21/32	9/32
7725B	1/2 x 9/16	8 11/16	47/64	21/64	53/64	11/32
7727A	5/8 x 11/16	9 3/4	29/32	3/8	1	13/32
7731A	3/4 x 7/8	12	1 3/32	15/32	1 1/4	1/2
7731B	13/16 x 7/8	12 7/8	1 11/64	1/2	1 1/4	17/32
7033C	15/16 x 1	14 3/8	1 21/64	37/64	1 13/32	5/8
7735A	1 1/16 x 1 1/8	16 3/8	1 1/2	43/64	1 9/16	23/32
7039B	1 1/4 x 1 5/16	18 3/4	1 25/32	47/64	1 27/32	51/64
7040B	1 7/16 x 1 1/2	21 1/2	2 3/64	13/16	2 3/32	7/8
7041	1 7/16 x 1 5/8	22 1/2	2 3/64	27/32	2 5/16	1

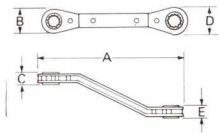
Ratcheting Box Wrenches



Catalog Number	Openings	Length A	Small Head Width B	Small Head Thick. C	Large Head Width D	Large Head Thick. E
Fractional - 6 & 12 Point - Chrome						
RB-810	1/4 x 5/16	4 1/4	19/32	3/8	41/64	3/8
RB-1214	3/8 x 9/16	5 1/2	25/32	3/8	57/64	3/8
RB-1618	1/2 x 9/16	6 3/4	1	1/2	1 1/8	1/2
RB-1820*	9/16 x 5/8	8	1 5/16	1/2	1 3/8	1/2
RB-2022*	5/8 x 11/16	8	1 5/16	1/2	1 3/8	1/2
RB-2024*	5/8 x 3/4	8	1 5/16	1/2	1 3/8	1/2
RB-2428*	3/4 x 7/8	9 1/4	1 3/8	1/2	1 9/16	1/2
RB-3036*	15/16 x 1 1/8	15	1 7/8	9/16	2 1/4	9/16
RB-3440*	1 1/16 x 1 1/4	15	1 7/8	9/16	2 1/4	9/16
Metric - 6 & 12 Point - Chrome						
RBM-0708	7x8	4 1/4	19/32	3/8	41/64	3/8
RBM-0910	9x10	5 1/2	25/32	3/8	57/64	3/8
RBM-1112	11x12	6 3/4	1	1/2	1 1/8	1/2
RBM-1314	13x14	6 3/4	1	1/2	1 1/8	1/2
RBM-1517*	15x17	8	1 5/16	1/2	1 3/8	1/2
RBM-1618*	16x18	8	1 5/16	1/2	1 3/8	1/2
RBM-1921*	19x21	9 1/4	1 3/8	1/2	1 9/16	1/2

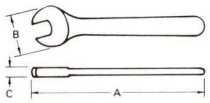
*12 Point Openings

Ratcheting Box Wrenches
Offset Pattern



Catalog Number	Openings	Length A	Small Head Width B	Small Head Thick. C	Large Head Width D	Large Head Thick. E
Fractional - 12 Point - Chrome						
RBO-810	1/4 x 5/16	4 3/32	19/32	3/8	41/64	3/8
RBO-1214	3/8 x 7/16	5 7/32	25/32	3/8	57/64	3/8
RBO-1618	1/2 x 9/16	6 15/32	1	1/2	1 1/8	1/2
RBO-2022	5/8 x 11/16	7 21/32	1 5/16	1/2	1 3/8	1/2
RBO-2024	5/8 x 3/4	7 21/32	1 5/16	1/2	1 3/8	1/2
RBO-2428	3/4 x 7/8	8 3/4	1 3/8	1/2	1 9/16	1/2
RBO-2226	11/16 x 13/16	8 3/4	1 3/8	1/2	1 9/16	1/2
RBO-2630	13/16 x 15/16	8 3/4	1 3/8	1/2	1 9/16	1/2

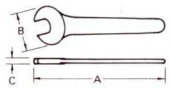
Open End Wrenches
Single Head Open End, 15° Angle
Black Finish



Catalog Number	Opening	Length A	Head Width B	Thick. C
BW-700	3/8	4 1/8	15/16	7/32
BW-701	7/16	4 3/4	1 5/32	1/4
BW-1	1/2	4 5/8	1	5/16
BW-702	9/16	5 1/2	1 3/16	5/16
BW-703	5/8	6 3/8	1 3/8	11/32
BW-3	11/16	6 3/8	1 3/8	11/32
BW-704	3/4	7 1/4	1 9/16	3/8
BW-5	7/8	8 1/8	1 3/4	7/16
BW-6	15/16	9 1/4	2	7/16
BW-706	1	9 1/4	2	7/16
BW-7	1 1/16	10 1/2	2 1/4	9/16
BW-707	1 1/8	10 1/2	2 1/4	9/16
BW-8	1 1/4	12	2 3/4	19/32
BW-708A	1 3/8	12	2 3/4	19/32
BW-9	1 7/16	13 1/2	3	5/8
BW-709	1 1/2	13 1/2	3	5/8
BW-10	1 5/8	15	3 1/2	7/8
BW-10A	1 11/16	15	3 1/2	7/8
BW-11	1 13/16	16 1/2	3 3/4	15/16
BW-11A	1 7/8	16 1/2	3 3/4	15/16
BW-12	2	18 1/4	4 1/8	1
BW-13	2 3/16	20	4 1/2	1 1/16
BW-13A	2 1/4	22	4 1/2	1 1/16
BW-14	2 3/8	22	4 5/8	1 1/8
BW-15	2 9/16	24	5 1/4	1 3/16
BW-15A	2 5/8	24	5 1/4	1 3/16
BW-16	2 3/4	27	6	1 1/4
BW-16A	2 15/16	27	6	1 1/4
BW-17A	3	30	6 3/8	1 1/2
BW-17	3 1/8	30	6 3/8	1 1/2
BW-18A	3 3/8	34	7 1/2	1 5/8
BW-18	3 1/2	34	7 1/2	1 5/8
BW-19B	3 3/4	37	8	1 3/4
BW-19	3 7/8	37	8	1 3/4
BW-19C	4 1/8	37	8	1 3/4
BW-19A	4 1/4	37	8	1 3/4
BW-20B	4 1/2	42	10 1/4	1 7/8
BW-20	4 5/8	37	8	1 3/4
BW-20A	5	42	10 1/4	1 7/8
BW-21A	5 3/8	47	12 3/8	2 1/2

Check Nut Wrenches

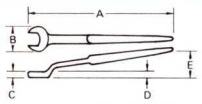
Thin Single Head Open End, 15° Angle
Black Finish



Catalog Number	Opening	Length A	Head Dia. B	Thick. C
601A	7/16	4	1	1/8
601	1/2	4	1	1/8
602A	9/16	4 1/2	1 1/4	5/32
603A	5/8	5 1/8	1 1/2	3/16
603	11/16	5 1/8	1 1/2	3/16
604A	3/4	6 1/8	1 5/8	7/32
605	7/8	6 5/8	1 13/16	1/4
606	15/16	7 1/2	2	9/32
606B	1	7 1/2	2	9/32
607	1 1/16	8 1/2	2 7/16	5/16
607A	1 1/8	8 1/2	2 7/16	5/16
608	1 1/4	10	2 5/8	3/8
608A	1 5/16	10	2 5/8	3/8
609A	1 1/2	11 3/8	3 3/8	7/16
610	1 5/8	13	3 7/16	1/2

Structural Wrenches

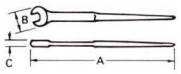
Single Head Open End, Offset Handle
Black Finish



Catalog Number	Opening	Length A	Head Width B	Thick. C	Handle Offset At Head D	Handle Offset At End E
1901B	9/16	9 1/2	1 9/16	13/32	1 1/16	2 1/16
1903A	5/8	9 1/2	1 9/16	13/32	1 1/16	2 1/16
1903	11/16	9 1/2	1 9/16	13/32	1 1/16	2 1/2
1904A	3/4	12	1 9/16	7/16	13/16	1 11/16
1905A	13/16	14 1/2	2	17/32	15/16	1 7/8
1905	7/8	14 1/2	2	17/32	15/16	1 7/8
1906	15/16	14 1/2	2	17/32	15/16	1 7/8
1906B	1	14 1/2	2	17/32	15/16	1 7/8
1907	1 1/16	17	2 1/4	5/8	1 1/16	2 3/8
1907A	1 1/8	17	2 1/4	5/8	1 1/16	2 3/8
1908	1 1/4	19	2 13/16	11/16	1 1/4	2 3/4
1908A	1 5/16	19	2 13/16	11/16	1 1/4	2 3/4
1909	1 7/16	19	3 1/8	3/4	1 1/4	3 1/16
1909A	1 1/2	20	3 1/8	3/4	1 1/4	3 1/16
1910	1 5/8	23	3 19/32	13/16	1 1/2	3 3/8
1910A	1 11/16	22	4	3/4	1 1/16	3 5/8
1911	1 13/16	22	4	3/4	1 1/16	3 5/8

Construction Wrenches

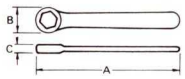
Single Head Open End, 15° Angle
Black Finish



Catalog Number	Opening	Length A	Head Width B	Thick. C
201B	9/16	9 1/2	1 1/4	11/32
203A	5/8	12	1 11/16	7/16
203	11/16	12	1 11/16	7/16
204A	3/4	12	1 9/16	7/16
205	7/8	14 1/2	2	17/32
206	15/16	14 1/2	2	17/32
206B	1	14 1/2	2	17/32
207	1 1/16	17	2 1/4	5/8
207A	1 1/8	17	2 1/4	5/8
208	1 1/4	19	2 5/8	11/16
208A	1 5/16	19	2 5/8	11/16
209	1 7/16	19	2 5/8	11/16
209A	1 1/2	19	2 5/8	11/16
210	1 5/8	25	4	15/16
211	1 13/16	25	4	15/16
211A	1 7/8	25	4	15/16
212	2	25	4	15/16

Box Wrenches

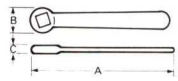
Single Head, 15° Angle Box
6 Point Box
Black Finish



Catalog Number	Opening	Length A	Head Dia. B	Thick. C
800	13/32	3 1/2	45/64	7/32
801	1/2	4	27/32	17/64
802A	9/16	4 7/8	61/64	9/16
803A	5/8	5 7/8	1 3/32	23/64
803	11/16	5 7/8	1 3/32	23/64
804A	3/4	6 7/8	1 1/4	13/32
805	7/8	7 3/4	1 23/64	29/64
806	15/16	8 3/4	1 35/64	1/2
806B	1	8 3/4	1 35/64	1/2
807	1 1/16	9 7/8	1 25/32	9/16
807A	1 1/8	9 7/8	1 25/32	9/16
808	1 1/4	11 1/2	2 1/16	9/16
809	1 7/16	13 3/8	2 3/8	21/32
809A	1 1/2	13 3/8	2 3/8	21/32
810	1 5/8	15 1/4	2 5/8	3/4

Set Screw Wrench

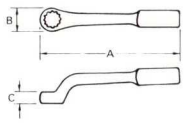
Single Box Head – Square Opening, 22½° Angle
Black Finish



Catalog Number	Opening	Length A	Head Dia. B	Thick. C
581	1/4	3 3/8	5/8	9/32
582	5/16	3 3/4	11/16	5/16
583	3/8	4 1/4	27/32	3/8
584	7/16	4 7/8	31/32	7/16
585	1/2	5 1/2	1 1/16	15/32
587	5/8	7	1 5/16	9/16
588	3/4	8	1 9/16	5/8

Striking Face Wrenches

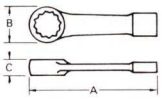
Offset Pattern
12 Point Box
Black Finish



Catalog Number	Opening	Length A	Head Dia. B	Thick. C
Fractional				
8807	1 1/16	10	1 11/16	13/16
8807A	1 1/8	10	1 11/16	13/16
8808B	1 3/16	11	2 1/16	7/8
8808	1 1/4	11	2 1/16	7/8
8808A	1 5/16	11	2 1/16	7/8
8809	1 7/16	11 1/2	2 1/4	1
8809A	1 1/2	11 1/2	2 1/4	1
8810	1 5/8	12	2 9/16	1 1/16
8810A	1 11/16	12	2 9/16	1 1/16
8811B	1 3/4	12 1/2	2 13/16	1 1/8
8811	1 13/16	12 1/2	2 13/16	1 1/8
8811A	1 7/8	12 1/2	2 13/16	1 1/8
8812A	1 15/16	13 1/2	3 1/8	1 1/4
8812	2	13 1/2	3 1/8	1 1/4
8813B	2 1/8	14 3/8	3 15/32	1 3/8
8813	2 3/16	14 3/8	3 15/32	1 3/8
8813A	2 1/4	14 3/8	3 15/32	1 3/8
8814A	2 5/16	14	3 23/32	1 1/2
8814	2 3/8	14	3 23/32	1 1/2
8815B	2 1/2	14 1/2	3 29/32	1 5/8
8815	2 9/16	14 1/2	3 29/32	1 5/8
8815A	2 5/8	14 1/2	3 29/32	1 5/8
8816	2 3/4	15	4 5/32	1 3/4
8816C	2 7/8	16	4 21/32	1 7/8
8816B	2 15/16	16	4 21/32	1 7/8
8817A	3	16 1/2	4 15/16	2
8817	3 1/8	16 1/2	4 15/16	2
Metric				
8807	27	10	1 11/16	13/16
8808B	30	11	2 1/16	7/8
8808	32	11	2 1/16	7/8
8808A	33	11	2 1/16	7/8
8809B	36	11 1/2	2 1/4	1
8809A	38	11 1/2	2 1/4	1
8810	41	12	2 9/16	1 1/16
8810A	43	12	2 9/16	1 1/16
8811B	44	12 1/2	2 13/16	1 1/8
8811	46	12 1/2	2 13/16	1 1/8
8812B	50	13 1/2	3 1/8	1 1/4
8812	51	13 1/2	3 1/8	1 1/4
8813B	54	14 3/8	3 15/32	1 3/8
8813	55	14 3/8	3 15/32	1 3/8
8813A	57	14 3/8	3 15/32	1 3/8
8814A	59	14	3 23/32	1 1/2
8814	60	14	3 23/32	1 1/2
8815B	64	14 1/2	3 29/32	1 5/8
8815	65	14 1/2	3 29/32	1 5/8
8815A	67	14 1/2	3 29/32	1 5/8
8816	70	15	4 5/32	1 3/4
8816C	73	16	4 21/32	1 7/8
8816B	75	16	4 21/32	1 7/8
8817A	76	16 1/2	4 15/16	2
8817	80	16 1/2	4 15/16	2

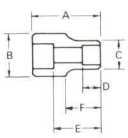
Striking Face Wrenches

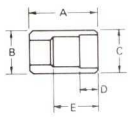
Straight Pattern
12 Point Box
Black Finish

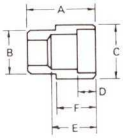


Catalog Number	Opening	Length A	Head Dia. B	Thick. C
Fractional				
SFH-1808B	1 3/16	7	2 3/16	13/16
SFH-1808	1 1/4	7	2 3/16	13/16
SFH-1808A	1 5/16	7	2 3/16	13/16
SFH-1809	1 7/16	8 1/4	2 5/16	1
SFH-1809A	1 1/2	8 1/4	2 5/16	1
SFH-1810	1 5/8	9	2 5/8	1 1/8
SFH-1810A	1 11/16	9	2 5/8	1 1/8
SFH-1811	1 13/16	10	2 15/16	1 1/4
SFH-1811A	1 7/8	10	2 15/16	1 1/4
SFH-1812	2	11	3 1/2	1 3/8
SFH-1813	2 3/16	11	3 1/2	1 3/8
SFH-1813A	2 1/4	11	3 1/2	1 3/8
SFH-1814	2 3/8	13	4 1/8	1 5/8
SFH-1815	2 9/16	13	4 1/8	1 5/8
SFH-1815A	2 5/8	13	4 1/8	1 5/8
SFH-1816	2 3/4	15 1/2	4 3/4	1 7/8
SFH-1816B	2 15/16	15 1/2	4 3/4	1 7/8
SFH-1817A	3	15 1/2	4 3/4	1 7/8
SFH-1817	3 1/8	15 1/2	4 3/4	1 7/8
SFH-1818A	3 3/8	17 1/4	5 1/4	2
SFH-1818	3 1/2	17 1/4	5 1/4	2
SFH-1819B	3 3/4	18	5 7/8	2 1/4
SFH-1819	3 7/8	18	5 7/8	2 1/4
SFH-1819C	4 1/8	19	6 3/8	2 7/16
SFH-1819A	4 1/4	19	6 3/8	2 7/16
SFH-1820B	4 1/2	20	7	2 3/4
SFH-1820	4 3/8	20	7	2 3/4
Metric				
SFH-1808B	30	7	2 3/16	13/16
SFH-1808	32	7	2 3/16	13/16
SFH-1808A	33	7	2 3/16	13/16
SFH-1809B	36	8 1/4	2 5/16	1
SFH-1809A	38	8 1/4	2 5/16	1
SFH-1810	41	9	2 5/8	1 1/8
SFH-1810A	43	9	2 5/8	1 1/8
SFH-1811	46	10	2 15/16	1 1/4
SFH-1812B	50	11	3 1/2	1 3/8
SFH-1812	51	11	3 1/2	1 3/8
SFH-1813	55	11	3 1/2	1 3/8
SFH-1813A	57	11	3 1/2	1 3/8
SFH-1814	60	13	4 1/8	1 5/8
SFH-1815	65	13	4 1/8	1 5/8
SFH-1815A	67	13	4 1/8	1 5/8
SFH-1816	70	15 1/2	4 3/4	1 7/8
SFH-1816B	75	15 1/2	4 3/4	1 7/8
SFH-1817A	76	15 1/2	4 3/4	1 7/8
SFH-1817	80	15 1/2	4 3/4	1 7/8
SFH-1818A	85	17 1/4	5 1/4	2
SFH-1818	89	17 1/4	5 1/4	2
SFH-1819B	95	18	5 7/8	2 1/4
SFH-1819	98	18	5 7/8	2 1/4
SFH-1819C	105	19	6 3/8	2 7/16
SFH-1819A	108	19	6 3/8	2 7/16
SFH-1820B	114	20	7	2 3/4
SFH-1820	117	20	7	2 3/4

Regular Length Hand Sockets







Catalog Number	Opening	Design Type	Length A	Drive End B	Opg End C	Opg Depth D	Bolt Clear. E	Nose Length F
¼" Drive - Fractional - 6 Point								
M-604	1/8	I	29/32	29/64	15/64	5/32	19/32	3/8
M-605	5/32	I	29/32	29/64	17/64	5/32	19/32	3/8
M-606	3/16	I	29/32	29/64	19/64	5/32	19/32	3/8
M-607	7/32	I	29/32	29/64	21/64	3/16	19/32	3/8
M-608	1/4	I	29/32	29/64	25/64	7/32	19/32	3/8
M-609	9/32	I	29/32	29/64	27/64	7/32	19/32	3/8
M-610	5/16	II	15/16	29/64	29/64	7/32	5/8	—
M-611	11/32	II	15/16	1/2	1/2	9/32	5/8	—
M-612	3/8	II	15/16	37/64	37/64	9/32	5/8	—
M-614	7/16	II	15/16	21/32	21/32	5/16	5/8	—
M-616	1/2	II	15/16	11/16	11/16	11/32	5/8	—
M-618	9/16	II	15/16	49/64	49/64	3/8	5/8	—
¼" Drive - Metric - 6 Point								
MM-604	4	I	29/32	29/64	17/64	5/32	19/32	3/8
MM-605	5	I	29/32	29/64	5/16	5/32	19/32	3/8
MM-605.5	5.5	I	29/32	29/64	11/32	5/32	19/32	3/8
MM-606	6	I	29/32	29/64	23/64	3/16	19/32	3/8
MM-607	7	I	29/32	29/64	27/64	7/32	19/32	3/8
MM-608	8	II	15/16	29/64	29/64	7/32	5/8	—
MM-609	9	II	15/16	1/2	1/2	1/4	5/8	—
MM-610	'10	II	15/16	37/64	37/64	1/4	5/8	—
MM-611	11	II	15/16	5/8	5/8	9/32	5/8	—
MM-612	12	II	15/16	21/32	21/32	5/16	5/8	—
MM-613	13	II	15/16	11/16	11/16	11/32	5/8	—
MM-614	14	II	15/16	49/64	49/64	13/32	5/8	—
¼" Drive - Fractional - 12 Point								
M-1208	1/4	I	29/32	29/64	25/64	7/32	19/32	3/8
M-1210	5/16	II	15/16	29/64	29/64	7/32	19/32	—
M-1211	11/32	II	15/16	1/2	1/2	9/32	19/32	—
M-1212	3/8	II	15/16	37/64	37/64	9/32	19/32	—
M-1214	7/16	II	15/16	21/32	21/32	5/16	19/32	—
M-1216	1/2	II	15/16	11/16	11/16	11/32	19/32	—
M-1218	9/16	II	15/16	49/64	49/64	3/8	19/32	—
¾" Drive - Fractional - 6 Point								
B-608	1/4	I	1 7/32	21/32	13/32	7/32	25/32	1/2
B-610	5/16	I	1 7/32	21/32	15/32	7/32	25/32	1/2
B-611	11/32	I	1 7/32	21/32	31/64	9/32	25/32	1/2
B-612	3/8	I	1 7/32	21/32	9/16	9/32	25/32	1/2
B-614	7/16	II	1 7/32	21/32	41/64	5/16	25/32	1/2
B-616	1/2	II	1 7/32	23/32	23/32	11/32	25/32	—
B-618	9/16	II	1 7/32	51/64	51/64	3/8	25/32	—
B-620	5/8	II	1 7/32	7/8	7/8	7/16	25/32	—
B-622	11/16	II	1 7/32	61/64	61/64	1/2	25/32	—
B-624	3/4	II	1 7/32	1	1	1/2	25/32	—
B-626	13/16	II	1 5/16	1 3/32	1 3/32	1/2	7/8	—
B-628	7/8	II	1 5/16	1 11/64	1 11/64	1/2	7/8	—

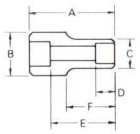
Regular Length Hand Sockets (continued)

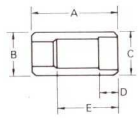
Catalog Number	Opening	Design Type	Length A	Drive End B	Opg End C	Opg Depth D	Bolt Clear. E	Nose Lgth F
¾" Drive - Fractional - 12 Point								
B-1208	1/4	I	1 7/32	21/32	13/32	7/32	25/32	1/2
B-1210	5/16	I	1 7/32	21/32	15/32	7/32	25/32	1/2
B-1211	11/32	I	1 7/32	21/32	31/64	9/32	25/32	1/2
B-1212	3/8	I	1 7/32	21/32	9/16	9/32	25/32	1/2
B-1214	7/16	II	1 7/32	21/32	21/32	5/16	25/32	1/2
B-1216	1/2	II	1 7/32	23/32	23/64	11/32	25/32	—
B-1217	17/32	II	1 7/32	49/64	49/64	3/8	25/32	—
B-1218	9/16	II	1 7/32	51/64	51/64	3/8	25/32	—
B-1219	19/32	II	1 7/32	27/32	27/32	7/16	25/32	—
B-1220	5/8	II	1 7/32	7/8	7/8	7/16	25/32	—
B-1222	11/16	II	1 7/32	61/64	61/64	1/2	25/32	—
B-1224	3/4	II	1 7/32	1	1	1/2	25/32	—
B-1226	13/16	II	1 5/16	1 3/32	1 3/32	1/2	7/8	—
B-1228	7/8	II	1 5/16	1 11/64	1 11/64	1/2	7/8	—
B-1230	15/16	II	1 3/8	1 9/32	1 9/32	5/8	15/16	—
B-1232	1	II	1 3/8	1 21/64	1 21/64	11/16	15/16	—
¾" Drive - Metric - 6 Point								
BM-606	6	I	1 7/32	21/32	25/64	3/16	25/32	1/2
BM-607	7	I	1 7/32	21/32	27/64	7/32	25/32	1/2
BM-608	8	I	1 7/32	21/32	29/64	7/32	25/32	1/2
BM-609	9	I	1 7/32	21/32	1/2	1/4	25/32	1/2
BM-610	10	I	1 7/32	21/32	37/64	1/4	25/32	1/2
BM-611	11	II	1 7/32	41/64	41/64	9/32	25/32	—
BM-612	12	II	1 7/32	11/16	11/16	5/16	25/32	—
BM-613	13	II	1 7/32	23/32	23/32	11/32	25/32	—
BM-614	14	II	1 7/32	49/64	49/64	13/32	25/32	—
BM-615	15	II	1 7/32	51/64	51/64	13/32	25/32	—
BM-616	16	II	1 7/32	27/32	27/32	15/32	25/32	—
BM-617	17	II	1 7/32	57/64	59/64	15/32	25/32	—
BM-618	18	II	1 7/32	61/64	61/64	15/32	25/32	—
BM-619	19	II	1 7/32	1	1	1/2	25/32	—
¾" Drive - Metric - 12 Point								
BM-1208	8	I	1 7/32	21/32	29/64	7/32	25/32	1/2
BM-1209	9	I	1 7/32	21/32	1/2	1/4	25/32	1/2
BM-1210	10	I	1 7/32	21/32	37/64	1/4	25/32	1/2
BM-1211	11	II	1 7/32	41/64	41/64	9/32	25/32	—
BM-1212	12	II	1 7/32	11/16	11/16	5/16	25/32	—
BM-1213	13	II	1 7/32	23/32	23/32	11/32	25/32	—
BM-1214	14	II	1 7/32	49/64	49/64	13/32	25/32	—
BM-1215	15	II	1 7/32	51/64	51/64	13/32	25/32	—
BM-1216	16	II	1 7/32	27/32	27/32	15/32	25/32	—
BM-1217	17	II	1 7/32	57/64	57/64	15/32	25/32	—
BM-1218	18	II	1 7/32	61/64	61/64	15/32	25/32	—
BM-1219	19	II	1 7/32	1	1	1/2	25/32	—
BM-1220	20	II	1 7/32	1 1/16	1 1/16	17/32	25/32	—
BM-1221	21	II	1 5/16	1 3/32	1 3/32	17/32	7/8	—
BM-1222	22	II	1 5/16	1 11/64	1 11/64	17/32	7/8	—
BM-1224	24	II	1 3/8	1 9/32	1 9/32	5/8	15/16	—
½" Drive - Fractional - 6 Point								
ST-612	3/8	I	1 1/2	7/8	37/64	9/32	7/8	3/4
ST-614	7/16	I	1 1/2	7/8	21/32	5/16	7/8	3/4
ST-616	1/2	I	1 1/2	7/8	3/4	11/32	7/8	3/4
ST-618	9/16	I	1 1/2	7/8	13/16	3/8	7/8	3/4
ST-619	19/32	II	1 1/2	21/32	21/32	7/16	7/8	—
ST-620	5/8	II	1 1/2	7/8	7/8	7/16	7/8	—
ST-621	21/32	II	1 1/2	15/16	13/16	7/16	7/8	—
ST-622	11/16	II	1 1/2	31/32	31/32	1/2	7/8	—
ST-624	3/4	II	1 1/2	1 1/16	1 1/16	1/2	7/8	—
ST-625	25/32	II	1 1/2	1 3/32	1 3/32	9/16	7/8	—
ST-626	13/16	II	1 1/2	1 1/8	1 1/8	9/16	7/8	—
ST-628	7/8	II	1 5/8	1 11/64	1 11/64	9/32	1	—
ST-630	15/16	II	1 5/8	1 17/64	1 17/64	5/8	1	—
ST-632	1	II	1 3/4	1 11/32	1 11/32	11/16	1 1/8	—
ST-634	1 1/16	II	1 3/4	1 7/16	1 7/16	23/32	1 1/8	—
ST-636	1 1/8	II	1 3/4	1 33/64	1 33/64	23/32	1 1/8	—
ST-640	1 1/4	II	2	1 47/64	1 47/64	7/8	1 3/8	—
½" Drive - Fractional - 8 Point								
ST-810	5/16	I	1 1/2	7/8	5/8	7/32	7/8	3/4
ST-812	3/8	I	1 1/2	7/8	47/64	9/32	7/8	3/4
ST-814	7/16	I	1 1/2	7/8	53/64	5/16	7/8	3/4
ST-816	1/2	II	1 1/2	29/32	29/32	11/32	7/8	—
ST-818	9/16	II	1 1/2	1 1/32	1 1/32	3/8	7/8	—
ST-820	5/8	II	1 5/8	1 3/32	1 3/32	7/16	1	—
ST-822	11/16	II	1 5/8	1 11/64	1 11/64	1/2	1	—
ST-824	3/4	II	1 11/16	1 9/32	1 9/32	1/2	1 1/16	—
ST-826	13/16	II	1 11/16	1 7/16	1 7/16	9/16	1 1/16	—
ST-828	7/8	II	1 27/32	1 33/64	1 33/64	19/32	1 1/32	—
ST-832	1	II	1 31/32	1 3/4	1 3/4	11/16	1 17/32	—
½" Drive - Fractional - 12 Point								
ST-1212	3/8	I	1 1/2	7/8	37/64	9/32	7/8	3/4
ST-1214	7/16	I	1 1/2	7/8	21/32	5/16	7/8	3/4
ST-1216	1/2	I	1 1/2	7/8	3/4	11/32	7/8	3/4
ST-1218	9/16	I	1 1/2	7/8	13/16	3/8	7/8	3/4
ST-1219	19/32	II	1 1/2	21/32	21/32	7/16	7/8	—
ST-1220	5/8	II	1 1/2	7/8	7/8	7/16	7/8	—
ST-1221	21/32	II	1 1/2	15/16	15/16	7/16	7/8	—
ST-1222	11/16	II	1 1/2	31/32	31/32	1/2	7/8	—
ST-1224	3/4	II	1 1/2	1 1/16	1 1/16	1/2	7/8	—
ST-1225	25/32	II	1 1/2	1 3/32	1 3/32	9/16	7/8	—
ST-1226	13/16	II	1 1/2	1 1/8	1 1/8	9/16	7/8	—
ST-1228	7/8	II	1 5/8	1 11/64	1 11/64	19/32	1	—
ST-1230	15/16	II	1 5/8	1 17/64	1 17/64	5/8	1	—
ST-1231	31/32	II	1 5/8	1 5/16	1 5/16	5/8	1	—
ST-1232	1	II	1 3/4	1 11/32	1 11/32	11/16	1 1/8	—
ST-1234	1 1/16	II	1 3/4	1 7/16	1 7/16	23/32	1 1/8	—
ST-1236	1 1/8	II	1 3/4	1 33/64	1 33/64	23/32	1 1/8	—
ST-1238	1 3/16	II	1 7/8	1 41/64	1 41/64	23/32	1 1/4	—
ST-1240	1 1/4	II	2	1 13/64	1 13/16	7/8	1 3/8	—
ST-1242	1 5/16	II	2	1 7/8	1 7/8	15/16	1 3/8	—
ST-1244	1 3/8	II	2	1 7/8	1 7/8	15/16	1 3/8	—
ST-1246	1 7/16	II	2	1 63/64	1 63/64	1 1/16	1 3/8	—
ST-1248	1 1/2	II	2	2 1/16	2 1/16	1 1/16	1 3/8	—
½" Drive - Metric - 12 Point								
STM-1210	10	I	1 1/2	7/8	39/64	1/4	7/8	3/4
STM-1211	11	I	1 1/2	7/8	43/64	9/32	7/8	3/4
STM-1212	12	I	1 1/2	7/8	45/64	15/16	7/8	3/4
STM-1213	13	I	1 1/2	7/8	3/4	11/32	7/8	3/4
STM-1214	14	I	1 1/2	7/8	13/16	13/32	7/8	3/4
STM-1215	15	I	1 1/2	7/8	27/32	13/32	7/8	3/4
STM-1216	16	II	1 1/2	7/8	7/8	29/64	7/8	—
STM-1217	17	II	1 1/2	15/16	15/16	29/64	7/8	—
STM-1218	18	II	1 1/2	1	1	15/32	7/8	—
STM-1219	19	II	1 1/2	1 1/32	1 1/32	1/2	7/8	—
STM-1220	20	II	1 1/2	1 3/32	1 3/32	17/32	7/8	—
STM-1221	21	II	1 5/8	1 1/8	1 1/8	17/32	1	—
STM-1222	22	II	1 5/8	1 11/64	1 11/64	37/64	1	—
STM-1223	23	II	1 5/8	1 15/64	1 15/64	19/32	1	—
STM-1224	24	II	1 5/8	1 1/4	1 1/4	5/8	1	—
STM-1225	25	II	1 5/8	1 5/16	1 5/16	21/32	1	—
STM-1226	26	II	1 3/4	1 11/32	1 11/32	21/32	1 1/8	—
STM-1227	27	II	1 3/4	1 7/16	1 7/16	45/64	1 1/8	—
STM-1228	28	II	1 3/4	1 15/32	1 15/32	47/64	1 1/8	—
STM-1229	29	II	1 3/4	1 33/64	1 33/64	47/64	1 1/8	—
STM-1230	30	II	1 29/32	1 41/64	1 41/64	23/32	1 9/32	—
STM-1232	32	II	2	1 47/64	1 45/64	7/8	1 3/8	—
STM-1234	34	II	2	1 13/16	1 13/16	7/8	1 3/8	—
STM-1236	36	II	2	1 15/16	1 15/16	15/16	1 3/8	—

Regular Length Hand Sockets (continued)

Catalog Number	Opening	Design Type	Length A	Drive End B	Opg End C	Opg Depth D	Bolt Clear. E	Nose Length F
¾" Drive - Fractional - 12 Point								
H-1224	¾	I	1¾	1 27/64	1⅛	½	51/64	¾
H-1226	13/16	I	1¾	1 27/64	1 7/32	9/16	51/64	¾
H-1228	⅞	I	2	1 29/64	1 5/16	37/64	1 3/64	¾
H-1230	15/16	I	2	1 29/64	1⅜	⅝	1 3/64	1
H-1231	31/32	II	2	1 29/64	1 29/64	⅝	1 3/64	—
H-1232	1	II	2	1 29/64	1 29/64	11/16	1 3/64	—
H-1234	1 1/16	II	2	1 33/64	1 33/64	45/64	1 3/64	—
H-1236	1⅛	II	2 1/4	1 37/64	1 37/64	¾	1 5/16	—
H-1238	1 3/16	II	2 1/4	1 11/16	1 11/16	13/16	1 5/16	—
H-1240	1¼	III	2 1/4	1⅝	1¾	⅞	1 5/16	1 9/16
H-1242	1 5/16	III	2 1/4	1⅝	1 13/16	15/16	1 5/16	1 9/16
H-1244	1⅜	III	2 1/4	1⅝	1 15/16	15/16	1 5/16	1 9/16
H-1246	1 7/16	III	2 1/2	1⅝	2 1/32	1 1/16	1 9/16	1 13/16
H-1248	1½	III	2 1/2	1¾	2 7/64	1 1/16	1 9/16	1 13/16
H-1250	1 9/16	III	2 1/2	1¾	2 3/16	1 1/16	1 9/16	1 13/16
H-1252	1⅝	III	2 1/2	1⅞	2 1/4	1 3/16	1 9/16	1 13/64
H-1254	1 11/16	III	2 3/4	2	2 5/16	1 3/16	1 13/16	2 1/16
H-1256	1¾	III	2 3/4	2	2⅜	1 5/16	1 13/16	2 1/16
H-1258	1 13/16	III	2 3/4	2	2½	1 5/16	1 13/16	2 1/16
H-1260	1⅞	III	2 3/4	2	2⅝	1 5/16	1 13/16	2 1/16
H-1264	2	III	3	2	2¾	1⅜	2 1/16	2 1/4
H-1266	2 1/16	III	3	2	2⅞	1 7/16	2 1/16	2 1/4
H-1268	2⅛	III	3 1/4	2	3	1 7/16	2 5/16	2 1/2
H-1270	2 3/16	III	3 1/4	2	3	1 9/16	2 5/16	2 1/2
H-1272	2¼	III	3 1/2	2	3 1/8	1 9/16	2 9/16	2¾
H-1274	2 5/16	III	3 1/2	2	3 1/8	1 9/16	2 9/16	2¾
H-1276	2⅜	III	3 1/2	2	3 1/4	1 9/16	2 9/16	2¾
¾" Drive - Metric - 12 Point								
HM-1219	19	I	1¾	1 27/64	1⅛	½	13/16	¾
HM-1222	22	I	2	1 29/64	1 5/16	1 9/32	1 1/16	¾
HM-1224	24	I	2	1 29/64	1⅜	⅝	1 1/16	1
HM-1227	27	II	2	1 33/64	1 33/64	23/32	1 1/16	—
HM-1230	30	II	2 1/4	1 37/64	1 37/64	13/16	1 5/16	—
HM-1232	32	III	2 1/4	1¾	1¾	⅞	1 5/16	1 9/16
HM-1235	35	III	2 1/4	1⅝	1 15/16	15/16	1 5/16	1 9/16
HM-1236	36	III	2 1/2	1⅝	2 1/32	15/16	1 9/16	1 13/16
HM-1238	38	III	2 1/2	1¾	2⅛	1 1/16	1 9/16	1 13/16
HM-1241	41	III	2 1/2	1⅞	2 11/32	1 3/16	1 9/16	1 13/16
HM-1246	46	III	2 3/4	2	2 1/2	1 5/16	1 13/16	2 1/16
HM-1250	50	III	3	2	2¾	1⅜	2 1/16	2 5/16
HM-1254	54	III	3 1/4	2	3	1 7/16	2 5/16	2 9/16
HM-1255	55	III	3 1/4	2	3	1 9/16	2 5/16	2 9/16
HM-1260	60	III	3 1/2	2	3 1/4	1 9/16	2 9/16	2 13/16
1" Drive - Fractional - 12 Point								
X-1234	1 1/16	I	2 1/2	2	1⅝	15/16	1⅜	1¼
X-1236	1⅛	I	2 1/2	2	1¾	1 3/16	1⅜	1¼
X-1240	1¼	I	2 1/2	2	1 29/32	⅞	1⅜	1¼
X-1242	1 5/16	II	2 1/2	2	2	15/16	1⅜	—
X-1244	1⅜	III	2 1/2	2	2 1/16	15/16	1⅜	—
X-1246	1 7/16	III	2 3/4	2	2 3/16	1 1/16	1⅝	—
X-1248	1½	III	2 3/4	2	2 1/4	1 1/16	1⅝	—
X-1252	1⅝	III	3	2 1/4	2⅜	1 3/16	1 7/8	—
X-1258	1 13/16	III	3	2 1/4	2⅝	1 5/16	1 7/8	—
X-1260	1⅞	III	3	2 1/4	2¾	1 5/16	1 7/8	—
X-1264	2	III	3 1/4	2 1/4	2⅞	1⅜	2 1/8	—
X-1268	2⅛	III	3 1/2	2 1/4	3	1 7/16	2⅜	—
X-1270	2 3/16	III	3 1/2	2 1/4	3 1/8	1 9/16	2⅜	—
X-1272	2¼	III	3 1/2	2 1/4	3 1/4	1 9/16	2⅜	—
X-1276	2⅜	III	3¾	2 1/4	3⅜	1 9/16	2⅝	—
X-1280	2½	III	3¾	2 1/4	3½	1 9/16	2⅝	—
X-1282	2 9/16	III	3¾	2 1/8	3 9/16	1 11/16	2⅝	—
X-1284	2⅝	III	4	2 1/8	3¾	1 11/16	2 7/8	—
X-1288	2¾	III	4¼	2 1/8	3 7/8	1 7/8	3⅛	—
X-1294	2 15/16	III	4¼	2 1/8	4⅛	1 7/8	3⅛	—
X-12100	3⅛	III	4½	2 1/8	4 5/16	2⅛	3⅜	—

Long Length Hand Sockets





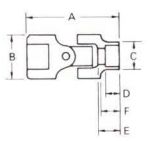
Catalog Number	Opening	Design Type	Length A	Drive End B	Opg End C	Opg Depth D	Bolt Clear E	Nose Length F
¼" Drive - Fractional - 6 Point								
MD-604	⅛	I	2	29/64	15/64	5/32	1 11/16	1⅛
MD-605	5/32	I	2	29/64	17/64	5/32	1 11/16	1⅛
MD-606	3/16	I	2	29/64	19/64	5/32	1 11/16	1⅛
MD-608	¼	I	2	29/64	25/64	7/32	1 11/16	1⅛
MD-609	9/32	I	2	29/64	27/64	7/32	1 11/16	1⅛
MD-610	5/16	II	2	29/64	29/64	7/32	1 11/16	—
MD-611	11/32	II	2	½	½	9/32	1 11/16	—
MD-612	⅜	II	2	37/64	37/64	9/32	1 11/16	—
MD-614	7/16	II	2	21/32	21/32	5/16	1 11/16	—
MD-616	½	II	2	11/16	11/16	11/32	1 11/16	—
MD-618	9/16	II	2	49/64	49/64	⅜	1 11/16	—
¼" Drive - Metric - 6 Point								
MMD-604	4	I	2	29/64	17/64	5/32	1 11/16	1⅛
MMD-605	5	I	2	29/64	15/16	5/32	1 11/16	1⅛
MMD-605.5	5.5	I	2	29/64	1 1/32	5/32	1 11/16	1⅛
MMD-606	6	I	2	29/64	23/64	3/16	1 11/16	1⅛
MMD-607	7	I	2	29/64	27/64	7/32	1 11/16	1⅛
MMD-608	8	II	2	29/64	29/64	7/32	1 11/16	—
MMD-609	9	II	2	½	½	¼	1 11/16	—
MMD-610	10	II	2	37/64	37/64	¼	1 11/16	—
MMD-611	11	II	2	⅝	39/64	9/32	1 11/16	—
MMD-612	12	II	2	43/64	43/64	5/16	1 11/16	—
MMD-613	13	II	2	11/16	11/16	11/32	1 11/16	—
MMD-614	14	II	2	49/64	49/64	13/32	1 11/16	—
¼" Drive - Fractional - 12 Point								
MD-1210	5/16	II	2	29/64	29/64	7/32	1 11/16	—
MD-1211	11/32	II	2	½	½	9/32	1 11/16	—
MD-1212	⅜	II	2	37/64	37/64	9/32	1 11/16	—
MD-1214	7/16	II	2	21/32	21/32	5/16	1 11/16	—
MD-1216	½	II	2	11/16	11/16	11/32	1 11/16	—
MD-1218	9/16	II	2	49/64	49/64	⅜	1 11/16	—
⅜" Drive - Fractional - 6 Point								
BD-610	5/16	I	2	21/32	15/32	7/32	1 9/16	2
BD-612	⅜	I	2	21/32	9/16	11/32	1 9/16	2
BD-614	7/16	II	2	21/32	21/32	7/16	1 9/16	2
BD-616	½	II	2	23/32	23/32	15/32	1 9/16	—
BD-618	9/16	II	2	51/64	51/64	½	1 9/16	—
BD-620	⅝	II	2 1/4	⅞	⅞	9/16	1 13/16	—
BD-622	11/16	II	2⅜	61/64	61/64	⅝	1 15/16	—
BD-624	¾	II	2½	1	1	⅝	2 1/16	—
BD-626	13/16	II	2⅝	1 3/32	1 3/32	11/16	2 3/16	—
BD-628	⅞	II	2⅝	1 11/64	1 11/64	23/32	2 3/16	—

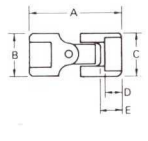
Long Length Hand Sockets (continued)

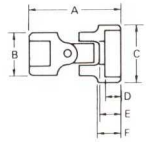
Catalog Number	Opening	Design Type	Length A	Drive End B	Opg End C	Opg Depth D	Bolt Clear E	Nose Length F
⅜" Drive - Metric - 6 Point								
BMD-608	8	I	2	21/32	29/64	7/32	1 9/16	1
BMD-609	9	I	2	21/32	½	11/32	1 9/16	1
BMD-610	10	I	2	21/32	37/64	⅜	1 9/16	1
BMD-611	11	I	2	21/32	41/64	13/32	1 9/16	1
BMD-612	12	II	2	43/64	43/64	7/16	1 9/16	—
BMD-613	13	II	2	23/32	23/32	15/32	1 9/16	—
BMD-614	14	II	2	49/64	49/64	17/32	1 9/16	—
BMD-615	15	II	2 1/4	51/64	51/64	17/32	1 13/16	—
BMD-616	16	II	2 1/4	27/32	27/32	19/32	1 13/16	—
BMD-617	17	II	2⅜	29/32	29/32	19/32	1 15/16	—
BMD-618	18	II	2⅜	61/64	61/64	19/32	1 15/16	—
BMD-619	19	II	2½	1	1	⅝	2 1/16	—
BMD-622	22	II	2½	1 11/64	1 11/64	23/32	2 1/16	—
¾" Drive - Fractional - 4 & 8 Point								
B-409*	9/32	I	1¼	43/64	½	¼	13/16	½
BD-814	7/16	II	1 7/32	49/64	49/64	5/16	25/32	—
BD-816	½	II	1 7/32	⅞	⅞	11/32	25/32	—
BD-818	9/16	II	1 7/32	61/64	61/64	⅜	25/32	—
BD-820	⅝	II	1 7/32	1 1/16	1 1/16	7/16	25/32	—
¾" Drive - Fractional - 12 Point								
BD-1212	⅜	I	2	43/64	9/16	11/32	1 9/16	1
BD-1214	7/16	II	2	43/64	43/64	7/16	1 9/16	1
BD-1216	½	II	2	23/32	23/32	11/32	1 9/16	—
BD-1218	9/16	II	2	51/64	51/64	½	1 9/16	—
BD-1220	⅝	II	2 1/4	⅞	⅞	9/16	1 13/16	—
BD-1222	11/16	II	2⅜	61/64	61/64	⅝	1 15/16	—
BD-1224	¾	II	2½	1	1	⅝	2 1/16	—
BD-1226	13/16	II	2⅝	1 3/32	1 3/32	11/16	2 3/16	—
BD-1228	⅞	II	2⅝	1 11/64	1 11/64	23/32	2 3/16	—
½" Drive - Fractional - 6 Point								
SD-616	½	I	3 1/4	⅞	¾	15/32	2⅝	1 5/16
SD-618	9/16	I	3 1/4	⅞	13/16	½	2⅝	1 5/16
SD-620	⅝	II	3 1/4	⅞	⅞	9/16	2⅝	—
SD-622	11/16	II	3 1/4	15/16	15/16	⅝	2⅝	—
SD-624	¾	II	3 1/4	1 1/32	1 1/32	⅝	2⅝	—
SD-626	13/16	II	3 1/4	1 3/32	1 3/32	11/16	2⅝	—
SD-628	⅞	II	3 1/4	1 11/64	1 11/64	45/64	2⅝	—
SD-630	15/16	II	3 1/4	1 9/32	1 9/32	¾	2⅝	—
SD-632	1	II	3 1/4	1 21/64	1 21/64	13/16	2⅝	—
SD-634	1 1/16	II	3 1/4	1 7/16	1 7/16	27/32	2⅝	—
SD-636	1⅛	II	3 1/4	1 33/64	1 33/64	15/16	2⅝	—
½" Drive - Fractional - 12 Point								
SD-1216	½	I	3 1/4	⅞	¾	15/32	2⅝	1 5/16
SD-1218	9/16	I	3 1/4	⅞	13/16	½	2⅝	1 5/16
SD-1220	⅝	II	3 1/4	⅞	⅞	9/16	2⅝	—
SD-1222	11/16	II	3 1/4	15/16	15/16	⅝	2⅝	—
SD-1224	¾	II	3 1/4	1 1/32	1 1/32	⅝	2⅝	—
SD-1225	25/32	II	3 1/4	1 3/32	1 3/32	11/16	2⅝	—
SD-1226	13/16	II	3 1/4	1 3/32	1 3/32	11/16	2⅝	—
SD-1228	⅞	II	3 1/4	1 11/64	1 11/16	45/64	2⅝	—
SD-1230	15/16	II	3 1/4	1 9/32	1 9/32	¾	2⅝	—
SD-1232	1	II	3 1/4	1 21/64	1 21/64	13/16	2⅝	—
SD-1234	1 1/16	II	3 1/4	1 7/16	1 7/16	27/32	2⅝	—
SD-1236	1⅛	II	3 1/4	1 33/64	1 33/64	15/16	2⅝	—
½" Drive - Metric - 12 Point								
SMD-1213	13	I	3 1/4	⅞	47/64	15/32	2⅝	1 5/16
SMD-1214	14	I	3 1/4	⅞	25/32	17/32	2⅝	1 5/16
SMD-1215	15	II	3 1/4	⅞	53/64	17/32	2⅝	—
SMD-1216	16	II	3 1/4	⅞	⅞	37/64	2⅝	—
SMD-1217	17	II	3 1/4	31/32	31/32	37/64	2⅝	—
SMD-1218	18	II	3 1/4	1	1	19/32	2⅝	—
SMD-1219	19	II	3 1/4	1 1/32	1 1/32	⅝	2⅝	—
SMD-1221	21	II	3 1/4	1⅛	1⅛	21/32	2⅝	—
SMD-1222	22	II	3 1/4	1 3/16	1 3/16	23/32	2⅝	—
SMD-1224	24	II	3 1/4	1 9/32	1 9/32	¾	2⅝	—
SMD-1227	27	II	3 1/4	1 7/16	1 7/16	27/32	2⅝	—
SMD-1230	30	II	3 1/4	1⅝	1⅝	15/16	2⅝	—
¾" Drive - Fractional - 6 Point								
HD-628	⅞	I	3½	1 7/16	1 5/16	23/32	2 9/16	1 5/16
HD-630	15/16	I	3½	1 7/16	1⅜	¾	2 9/16	1 5/16
HD-632	1	II	3½	1 7/16	1 7/16	13/16	2 9/16	—
HD-634	1 1/16	II	3½	1 9/16	1 9/16	27/32	2 9/16	—
HD-636	1⅛	II	3½	1 5/8	1 5/8	15/16	2 9/16	—
HD-640	1¼	II	3½	1¾	1¾	1	2 9/16	—
HD-642	1 5/16	II	3½	1⅞	1⅞	1 1/16	2 9/16	—
HD-644	1⅜	II	3½	1 15/16	1 15/16	1 1/16	2 9/16	—
HD-646	1 7/16	II	3½	2 1/32	2 1/32	1 3/16	2 9/16	—
HD-648	1 ½	II	3 ½	2 7/64	2 7/64	1 3/16	2 9/16	—
HD-652	1⅝	II	3½	2¼	2¼	1 5/16	2 9/16	—

*4 Point

Universal (Flex) Hand Sockets



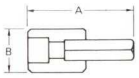




Catalog Number	Opening	Design Type	Length A	Drive End B	Opg End C	Opg Depth D	Nose Length E
¼" Drive - Fractional - 6 Point							
MU-610	5/16	I	1¼	9/16	29/64	¼	15/64
MU-612	⅜	I	1 9/32	9/16	17/32	9/32	17/64
MU-614	7/16	III	1 11/32	9/16	39/64	5/16	—
MU-616	½	III	1 7/16	9/16	43/64	11/32	—
⅜" Drive - Metric - 6 Point							
BMU-608	8	I	1 25/32	¾	15/32	¼	¼
BMU-609	9	I	1 25/32	¾	33/64	¼	¼
BMU-610	10	I	1 25/32	¾	37/64	¼	¼
BMU-611	11	I	1 13/16	¾	39/64	9/32	9/32
BMU-612	12	I	1 27/32	¾	43/64	5/16	5/16
BMU-613	13	I	1 27/32	¾	23/32	5/16	5/16
BMU-614	14	II	1 57/64	¾	49/64	11/32	—
BMU-615	15	III	1 61/64	¾	51/64	⅜	—
BMU-616	16	III	1 61/64	¾	27/32	13/32	—
BMU-617	17	III	1 63/64	¾	57/64	27/64	—
BMU-618	18	III	2 1/64	¾	31/32	7/16	—
BMU-619	19	III	2 1/64	¾	1	15/32	—
¾" Drive - Fractional - 12 Point							
BU-1212	⅜	I	1 25/32	¾	17/32	7/32	¼
BU-1214	7/16	I	1 13/16	¾	39/64	9/32	9/32
BU-1216	½	I	1 27/32	¾	11/16	5/16	5/16
BU-1218	9/16	II	1 57/64	¾	49/64	11/32	—
BU-1220	⅝	III	1 61/64	¾	27/32	13/32	—
BU-1222	11/16	III	1 63/64	¾	61/64	13/32	—
BU-1224	¾	III	2 1/64	¾	1	7/16	—
½" Drive - Fractional - 12 Point							
SU-1216	½	I	2 23/64	1	45/64	5/16	7/16
SU-1218	9/16	I	2 7/16	1	25/32	⅜	½
SU-1220	⅝	I	2 15/32	1	⅞	⅜	9/16
SU-1222	11/16	I	2 9/16	1	61/64	15/32	⅝
SU-1224	¾	III	2⅝	1	1 1/64	17/32	45/64

Hex Bit Sockets

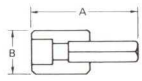
¼" Drive



Bit Size	Short Hex Bit Sockets Catalog Number	Lgth A	Dia B	Long Hex Bit Sockets Catalog Number	Lgth A	Dia B
.050	MA-050	1 11/16	31/64	MA-050L	2 3/4	31/64
1/16	MA-2	1 11/16	31/64	MA-2L	2 3/4	31/64
5/64	MA-2 1/2	1 11/16	31/64	MA-2 1/2L	2 3/4	31/64
3/32	MA-3	1 11/16	31/64	MA-3L	2 3/4	31/64
7/64	MA-3 1/2	1 11/16	31/64	MA-3 1/2L	2 3/4	31/64
1/8	MA-4	1 3/4	31/64	MA-4L	3 5/8	31/64
9/64	MA-4 1/2	1 3/4	31/64	MA-4 1/2L	3 5/8	31/64
5/32	MA-5	1 3/4	31/64	MA-5L	3 5/8	31/64
3/16	MA-6	1 3/4	39/64	MA-6L	3 5/8	39/64
7/32	MA-7	1 3/4	39/64	MA-7L	3 5/8	39/64
1/4	MA-8	1 13/16	39/64	MA-8L	4 9/16	39/64
5/16	MA-10	1 13/16	39/64	MA-10L	4 9/16	39/64

Bit Size	Slotted Screw Bit Sockets Catalog Number	Lgth A	Bit Size	Phillips Screw Bit Sockets Catalog Number	Lgth A
3/16 x .032	MA-10-1S	2 15/64	No. 1	MA-10-1P	1 63/64
7/32 x .040	MA-10-2S	2 15/64	No. 2	MA-10-2P	1 63/64
9/32 x .045	MA-10-3S	2 15/64	No. 3	MA-10-3P	1 63/64
5/16 x .055	MA-10-4S	2 15/64	No. 4	MA-10-4P	1 63/64

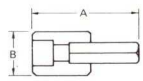
⅜" Drive



Bit Size	Short Hex Bit Sockets Catalog Number	Lgth A	Dia B	Long Hex Bit Sockets Catalog Number	Lgth A	Dia B
3/32	BA-3	1 51/64	1 1/8	BA-3L	2 55/64	1 1/8
1/8	BA-4	1 27/32	1 1/8	BA-4L	2 23/64	1 1/8
5/32	BA-5	1 27/32	1 1/8	BA-5L	2 23/64	1 1/8
3/16	BA-6	1 3/4	1 1/8	BA-6L	3 5/8	1 1/8
7/32	BA-7	1 3/4	1 1/8	BA-7L	3 5/8	1 1/8
1/4	BA-8	1 49/64	1 1/8	BA-8L	4 41/64	1 1/8
5/16	BA-10	1 51/64	1 1/4	BA-10L	4 49/64	1 1/4
3/8	BA-12	2 9/64	1 1/4	BA-12L	5 59/64	1 1/4

Bit Size	Slotted Screw Bit Sockets Catalog Number	Lgth A	Dia B	Bit Size	Phillips Screw Bit Sockets Catalog Number	Lgth A	Dia B
3/16 x .032	BA-10-1S	2 1/4	1 1/4	No. 1	BA-10-1P	2	1 1/4
7/32 x .040	BA-10-2S	2 1/4	1 1/4	No. 2	BA-10-2P	2	1 1/4
9/32 x .045	BA-10-3S	2 1/4	1 1/4	No. 3	BA-10-3P	2	1 1/4
5/16 x .055	BA-10-4S	2 1/4	1 1/4	No. 4	BA-10-4P	2	1 1/4

½" Drive

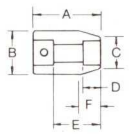


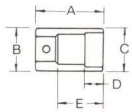
Bit Size	Short Hex Bit Sockets Catalog Number	Lgth A	Dia B	Long Hex Bit Sockets Catalog Number	Lgth A	Dia B
1/4	SA-8	2 1/4	7/8	SA-8L	5	7/8
5/16	SA-10	2 1/4	7/8	SA-10L	5	7/8
3/8	SA-12	2 3/8	7/8	SA-12L	6	7/8
1/2	SA-16	2 3/8	1 1/16	SA-16L	6	1 1/16
9/16	SA-18	2 1/2	1 1/16	SA-18L	7	1 1/16
5/8	SA-20	2 1/2	1 1/16	SA-20L	7	1 1/16

½" Drive

Bit Size	Slotted Screw Bit Sockets Catalog Number	Lgth A	Dia B	Bit Size	Phillips Screw Bit Sockets Catalog Number	Lgth A	Dia B
3/16 x .032	SA-10-1S	2 1/2	7/8	No. 1	SA-10-1P	2 1/4	7/8
7/32 x .040	SA-10-2S	2 1/2	7/8	No. 2	SA-10-2P	2 1/4	7/8
9/32 x .045	SA-10-3S	2 1/2	7/8	No. 3	SA-10-3P	2 1/4	7/8
5/16 x .055	SA-10-4S	2 1/2	7/8	No. 4	SA-10-4P	2 1/4	7/8

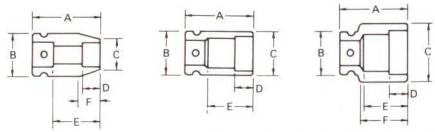
Regular Length – Impact Sockets





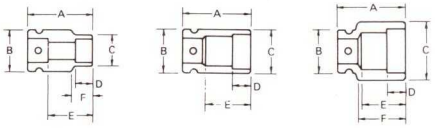
Catalog Number	Opening	Type	Length A	Drive End B	Opening End C	Opening Depth D	Bolt Clear E	Nose Length F
¼" Drive - Fractional - 6 Point - Black								
30-606	3/16	I	2 9/32	15/32	19/64	5/32	19/32	3/8
30-607	7/32	I	2 9/32	15/32	21/64	3/16	19/32	3/8
30-608	1/4	I	2 9/32	15/32	23/64	7/32	19/32	3/8
30-609	9/32	I	2 9/32	15/32	13/32	7/32	19/32	3/8
30-610	5/16	II	1 15/16	15/32	15/32	7/32	5/8	—
30-611	11/32	II	1 15/16	33/64	33/64	9/32	5/8	—
30-612	3/8	II	1 15/16	19/32	19/32	9/32	5/8	—
30-614	7/16	II	1 15/16	43/64	43/64	5/16	5/8	—
30-616	1/2	II	1 15/16	45/64	45/64	11/32	5/8	—
⅜" Drive - Fractional - 6 Point - Black								
2-610	5/16	I	1 1/4	45/64	1/2	7/32	13/16	1/2
2-612	3/8	I	1 1/4	45/64	19/32	9/32	13/16	1/2
2-614	7/16	I	1 1/2	45/64	21/32	5/16	1 1/16	1/2
2-616	1/2	II	1 1/2	13/16	13/16	11/32	1 1/16	—
2-618	9/16	II	1 1/2	55/64	55/64	3/8	1 1/16	—
2-620	5/8	II	1 1/2	31/32	31/32	7/16	1 1/16	—
2-622	11/16	II	1 1/2	1 1/64	1 1/64	1/2	1 1/16	—
2-624	3/4	II	1 1/2	1 5/64	1 5/64	1/2	1 1/16	—
⅜" Drive - Metric - 6 Point - Black								
2M-607	7	I	1 1/4	45/64	31/64	7/32	13/16	1/2
2M-608	8	I	1 1/4	45/64	1/2	7/32	13/16	1/2
2M-609	9	I	1 1/4	45/64	19/32	1/4	13/16	7/16
2M-610	10	I	1 1/4	45/64	41/64	1/4	13/16	7/16
2M-611	11	I	1 1/4	45/64	43/64	9/32	13/16	1/2
2M-612	12	II	1 1/4	25/32	25/32	5/16	13/16	—
2M-613	13	II	1 1/2	25/32	25/32	11/32	1 1/16	—
2M-614	14	II	1 1/2	25/32	25/32	13/32	1 1/16	—
2M-615	15	II	1 1/2	55/64	55/64	13/32	1 1/16	—
2M-616	16	II	1 1/2	29/32	29/32	29/64	1 1/16	—
2M-617	17	II	1 1/2	31/32	31/32	29/64	1 1/16	—
2M-618	18	II	1 1/2	1 1/64	1 1/64	15/32	1 1/16	—
2M-619	19	II	1 1/2	1 5/64	1 5/64	1/2	1 1/16	—
⅜" Drive - Fractional - 12 Point Thin Wall - Black								
32-1208	1/4	I	1 7/32	43/64	3/8	7/32	25/32	1/2
32-1210	5/16	I	1 7/32	43/64	7/16	7/32	25/32	1/2
32-1212	3/8	I	1 7/32	43/64	35/64	9/32	25/32	1/2
32-1214	7/16	I	1 7/32	43/64	5/8	5/16	25/32	1/2
32-1216	1/2	II	1 7/32	47/64	47/64	11/32	25/32	—
32-1218	9/16	II	1 7/32	25/32	25/32	3/8	25/32	—
32-1220	5/8	II	1 7/32	55/64	55/64	7/16	25/32	—
32-1222	11/16	II	1 7/32	51/64	51/64	1/2	25/32	—
32-1224	3/4	II	1 7/32	1 1/64	1 1/64	1/2	25/32	—
½" Drive - Fractional - 6 Point - Black								
4-612	3/8	I	1 1/2	57/64	21/32	9/32	7/8	3/4
4-614	7/16	I	1 1/2	57/64	47/64	5/16	7/8	3/4
4-616	1/2	I	1 1/2	57/64	13/16	11/32	7/8	3/4
4-618	9/16	II	1 1/2	57/64	57/64	3/8	7/8	—
4-620	5/8	II	1 1/2	1	1	7/16	7/8	—
4-622	11/16	II	1 1/2	1 5/64	1 5/64	1/2	7/8	—
4-624	3/4	II	1 1/2	1 9/64	1 9/64	1/2	7/8	—
4-626	13/16	II	1 1/2	1 1/4	1 1/4	9/16	7/8	—
4-628	7/8	II	1 1/2	1 19/64	1 19/64	37/64	7/8	—
4-630	15/16	II	1 3/4	1 23/64	1 23/64	5/8	1 1/8	—
4-632	1	II	1 3/4	1 15/32	1 15/32	11/16	1 1/8	—
4-634	1 1/16	II	2	1 17/32	1 17/32	45/64	1 3/8	—
4-636	1 1/8	II	2	1 19/32	1 19/32	13/16	1 3/8	—
4-638	1 3/16	II	2	1 21/32	1 21/32	13/16	1 3/8	—
4-640	1 1/4	II	2	1 49/64	1 49/64	7/8	1 3/8	—
½" Drive - Fractional - 6 Point - Surface Drive - Black								
4-616A	1/2	IA	1 1/2	61/64	25/32	11/32	7/8	1 1/16
4-618A	9/16	IA	1 1/2	61/64	7/8	3/8	7/8	1 1/16
4-620A	5/8	II	1 1/2	61/64	61/64	7/16	7/8	—
4-622A	11/16	II	1 1/2	1 5/64	1 5/64	1/2	7/8	—
4-624A	3/4	II	1 1/2	1 9/64	1 9/64	1/2	7/8	—
4-626A	13/16	II	1 1/2	1 17/64	1 17/64	9/16	7/8	—
4-628A	7/8	II	1 1/2	1 21/64	1 21/64	37/64	7/8	—
½" Drive - Metric - 6 Point - Black								
4M-610	10	I	1 1/2	57/64	43/64	1/4	7/8	3/4
4M-611	11	I	1 1/2	57/64	47/64	9/32	7/8	3/4
4M-612	12	I	1 1/2	57/64	25/32	5/16	7/8	3/4
4M-613	13	I	1 1/2	57/64	27/32	11/32	7/8	3/4
4M-614	14	II	1 1/2	7/8	7/8	13/32	7/8	—
4M-615	15	II	1 1/2	31/32	31/32	13/32	7/8	—
4M-616	16	II	1 1/2	1 1/64	1 1/64	29/64	7/8	—
4M-617	17	II	1 1/2	1 3/64	1 3/64	29/64	7/8	—
4M-618	18	II	1 1/2	1 5/64	1 5/64	15/32	7/8	—
4M-619	19	II	1 1/2	1 9/64	1 9/64	1/2	7/8	—
4M-621	21	II	1 1/2	1 17/64	1 17/64	17/32	7/8	—
4M-622	22	II	1 1/2	1 19/64	1 19/64	37/64	7/8	—
4M-624	24	II	1 3/4	1 23/64	1 23/64	5/8	1 1/8	—
4M-627	27	II	2	1 17/32	1 17/32	45/64	1 3/8	—
4M-630	30	II	2	1 21/32	1 21/32	13/16	1 3/8	—
½ Drive - Fractional - 12 Point - Thin Wall - Black								
34-1214	7/16	I	1 1/2	57/64	41/64	5/16	7/8	3/4
34-1216	1/2	I	1 1/2	57/64	23/32	11/32	7/8	3/4
34-1218	9/16	I	1 1/2	57/64	51/64	3/8	7/8	3/4
34-1220	5/8	II	1 1/2	57/64	57/64	7/16	7/8	—
34-1222	11/16	II	1 1/2	61/64	61/64	1/2	7/8	—
34-1224	3/4	II	1 1/2	1 3/64	1 3/64	1/2	7/8	—
34-1226	13/16	II	1 1/2	1 5/32	1 5/32	9/16	7/8	—
34-1228	7/8	II	1 5/8	1 3/16	1 3/16	37/64	7/8	—
34-1230	15/16	II	1 5/8	1 17/64	1 17/64	5/8	7/8	—

Regular Length – Impact Sockets (continued)



Catalog Number		Opening	Type	Length A	Drive End B	Opening End C	Opening Depth D	Bolt Clear E	Nose Length F
¾" Drive - Fractional - 6 Point - Black									
6-620		5/8	I	1 3/4	1 3/4	1 1/8	5/16	13/16	3/4
6-622		11/16	I	1 3/4	1 3/4	1 1/8	5/16	13/16	3/4
6-624		3/4	I	1 3/4	1 3/4	1 1/4	3/8	13/16	3/4
6-626		13/16	I	1 7/8	1 3/4	1 3/8	7/16	15/16	7/8
6-628		7/8	I	1 7/8	1 3/4	1 1/2	1/2	15/16	7/8
6-630		15/16	I	1 7/8	1 3/4	1 9/16	1/2	1 1/16	7/8
6-632		1	II	1 7/8	1 3/4	1 5/8	1/2	1 1/16	—
6-634		1 1/16	III	2 1/16	1 3/4	1 3/4	1/2	1 1/16	1 5/16
6-636		1 1/8	III	2 1/16	1 3/4	1 3/4	5/8	1 3/16	1 7/16
6-638		1 3/16	III	2 1/16	1 3/4	1 3/4	5/8	1 5/16	1 9/16
6-640		1 1/4	III	2 1/16	1 3/4	1 15/16	11/16	1 5/16	1 9/16
6-642		1 5/16	III	2 3/16	1 3/4	1 15/16	3/4	1 5/16	1 9/16
6-644		1 3/8	III	2 3/16	1 3/4	2 1/16	3/4	1 5/16	1 9/16
6-646		1 7/16	III	2 3/16	1 3/4	2 1/16	3/4	1 9/16	1 13/16
6-648		1 1/2	III	2 1/4	1 3/4	2 1/8	13/16	1 9/16	1 13/16
6-652		1 5/8	III	2 1/4	1 3/4	2 1/4	13/16	1 9/16	1 13/16
6-654		1 11/16	III	2 7/16	1 3/4	2 1/2	1	1 9/16	1 13/16
¾" Drive - Metric - 6 Point - Black									
6M-617		17	I	1 3/4	1 3/4	1 1/8	5/16	13/16	3/4
6-624		19	I	1 3/4	1 3/4	1 1/4	3/8	13/16	3/4
6-628		22	I	1 7/8	1 3/4	1 1/2	1/2	15/16	7/8
6-630		24	I	1 7/8	1 3/4	1 9/16	1/2	1 1/16	7/8
6-634		27	III	2 1/16	1 3/4	1 3/4	1/2	1 1/16	1 5/16
6-638		30	III	2 1/16	1 3/4	1 3/4	5/8	1 5/16	1 9/16
6-640		32	III	2 1/16	1 3/4	1 15/16	11/16	1 5/16	1 9/16
6-644		35	III	2 3/16	1 3/4	2 1/16	3/4	1 5/16	1 9/16
6M-636		36	III	2 3/16	1 3/4	2 1/16	3/4	1 5/16	1 9/16
6-648		38	III	2 1/4	1 3/4	2 1/8	13/16	1 9/16	1 13/16
6-652		41	III	2 1/4	1 3/4	2 1/4	13/16	1 9/16	1 13/16
6-654		43	III	2 7/16	1 3/4	2 1/2	1	1 9/16	1 13/16

*4 Point

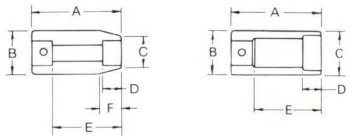


Catalog Number		Opening	Type	Length A	Drive End B	Opening End C	Opening Depth D	Bolt Clear E	Nose Length F
Sockets marked * are non Stock items, available on special order only.									
1" Drive Fractional - 6 Point - Black									
7-624		3/4	I	2 3/16	2 1/8	1 3/8	3/8	15/16	7/8
7-626		13/16	I	2 3/16	2 1/8	1 1/2	7/16	1 1/16	7/8
7-628		7/8	I	2 3/16	2 1/8	1 9/16	1/2	1 1/16	7/8
7-630		15/16	I	2 3/16	2 1/8	1 5/8	1/2	1 1/16	7/8
7-632		1	I	2 1/4	2 1/8	1 11/16	1/2	1 1/8	1
7-634		1 1/16	I	2 1/4	2 1/8	1 13/16	1/2	1 1/8	1
7-636		1 1/8	I	2 1/4	2 1/8	1 7/8	5/8	1 1/4	1 1/8
7-638		1 3/16	I	2 1/4	2 1/8	1 15/16	5/8	1 1/4	1 1/8
7-640		1 1/4	I	2 1/4	2 1/8	2	5/8	1 3/8	1 1/8
7-642		1 5/16	II	2 5/16	2 1/8	2 1/8	3/4	1 3/8	—
7-644		1 3/8	II	2 5/16	2 1/8	2 1/8	3/4	1 1/2	—
7-646		1 7/16	II	2 5/16	2 1/8	2 1/8	3/4	1 1/2	—
7-648		1 1/2	III	2 7/16	2 1/8	2 3/8	13/16	1 1/2	1 11/16
7-650		1 9/16	III	2 7/16	2 1/8	2 3/8	13/16	1 5/16	1 11/16
7-652		1 5/8	III	2 7/16	2 1/8	2 1/2	13/16	1 5/16	1 11/16
7-654		1 11/16	III	2 5/8	2 1/8	2 5/8	1	1 3/8	1 3/4
7-656		1 3/4	III	2 11/16	2 1/8	2 3/4	1	1 3/8	1 3/4
7-658		1 13/16	III	2 11/16	2 1/8	2 3/4	1	1 7/16	1 13/16
7-660		1 7/8	III	2 3/4	2 1/8	2 3/4	1 1/16	1 1/2	1 13/16
7-662		1 15/16	III	2 3/4	2 1/8	2 7/8	1 1/16	1 1/2	1 13/16
7-664		2	III	2 3/4	2 1/8	2 7/8	1 1/16	1 9/16	1 13/16
7-666		2 1/16	III	2 15/16	2 1/8	3 1/16	1 3/16	1 5/8	1 7/8
7-668		2 1/8	III	2 15/16	2 1/8	3 1/4	1 3/16	1 11/16	1 15/16
7-670		2 3/16	III	3 1/16	2 1/8	3 1/4	1 1/4	1 11/16	1 15/16
7-672		2 1/4	III	3 1/16	2 1/8	3 1/4	1 1/4	1 3/4	2 1/8
7-674		2 5/16	III	3 1/8	2 1/8	3 3/8	1 1/4	1 25/32	2 3/32
7-676		2 3/8	III	3 9/16	2 1/8	3 3/8	1 3/8	1 25/32	2 3/32
7-678		2 7/16	III	3 9/16	2 1/8	3 5/8	1 3/8	2	2 5/32
7-680		2 1/2	III	3 9/16	2 1/8	3 5/8	1 3/8	2 3/16	2 5/32
7-682		2 9/16	III	3 9/16	2 1/8	3 5/8	1 3/8	2 3/16	2 5/32
7-684		2 5/8	III	3 5/8	2 1/8	3 5/8	1 1/2	2 3/8	2 7/16
7-686		2 11/16	III	3 11/16	2 1/8	3 3/4	1 1/2	2 3/8	2 5/16
7-688		2 3/4	III	3 3/4	2 1/8	3 3/4	1 1/2	2 3/8	2 5/16
7-690		2 13/16	III	3 3/4	3 3/8	3 15/16	1 9/16	2 1/2	2 9/16
7-692		2 7/8	III	3 3/4	3 3/8	3 15/16	1 9/16	2 9/16	2 5/8
7-694		2 15/16	III	3 3/4	3 3/8	3 15/16	1 5/8	2 9/16	2 5/8
7-696		3	III	3 3/4	3 3/8	4 1/8	1 3/4	2 21/32	2 5/8
7-6100		3 1/8	III	3 3/4	3 3/8	4 1/8	1 3/4	2 3/4	2 5/8
7-6104		3 1/4	III	3 15/16	3 3/8	4 5/16	1 13/16	2 11/16	2 9/16
7-6108		3 3/8	III	4 1/16	3 3/8	4 5/16	1 15/16	3 1/32	2 3/4
7-6112		3 1/2	III	4 1/16	3 3/8	4 3/4	1 15/16	3 1/32	2 7/8
7-6116		3 5/8	III	4 1/16	3 3/8	5 1/8	2	3	2 7/8
7-6118	*	3 11/16	III	4 1/16	3 3/8	5 1/8	2 1/8	2 47/64	3 1/4
7-6120	*	3 3/4	III	4 3/8	3 3/8	5 5/16	2 1/8	2 49/64	3 1/4
7-6122	*	3 13/16	III	4 3/8	3 3/8	5 5/16	2 1/8	2 49/64	3 1/4
7-6124		3 7/8	III	4 3/8	3 3/8	5 5/16	2 1/8	2 11/16	3 1/4
7-6126	*	3 15/16	III	4 3/8	3 3/8	5 5/16	2 1/8	2 31/32	3 1/2
7-6128		4	III	4 3/8	5	5 1/2	2 1/8	2 61/64	3 1/2
7-6130	*	4 1/16	III	4 3/8	5	5 1/2	2 1/8	2 15/16	3 3/8
7-6132		4 1/8	III	4 3/8	5	5 11/16	2 1/8	2 59/64	3 3/8
7-6134	*	4 3/16	III	4 3/8	5	5 11/16	2 1/8	3 27/64	3 7/8
7-6136		4 1/4	III	4 11/16	5	5 11/16	2 7/16	3 13/32	3 7/8
7-6138	*	4 5/16	III	4 11/16	5	5 7/8	2 7/16	3 25/32	3 7/8
7-6140	*	4 3/8	III	4 11/16	5	5 7/8	2 7/16	3 3/8	3 7/8
7-6142	*	4 7/16	III	4 11/16	5	6 1/8	2 7/16	3 23/64	3 7/8
7-6144		4 1/2	III	4 11/16	5	6 1/8	2 7/16	3 23/32	4 1/8
7-6146	*	4 9/16	III	5 3/4	3 1/4	6 1/2	2 49/64	3 11/16	4 1/8
7-6148		4 5/8	III	5 3/4	3 1/4	6 1/2	2 13/16	3 11/16	4 1/16
7-6152	*	4 3/4	III	5 3/4	3 1/4	6 3/4	2 57/64	3 11/16	4 1/16
7-6156	*	4 7/8	III	6 1/4	3 1/4	7	2 63/64	4 1/8	4 7/16
7-6160	*	5	III	6 1/4	3 1/4	7 1/4	3 1/16	4 3/32	4 7/16
7-6172	*	5 3/8	III	6 1/2	3 1/4	7 3/4	3 9/16	4 17/64	4 9/16
7-6184	*	5 3/4	III	6 1/2	3 1/4	8 1/4	3 9/16	4 3/16	4 7/16

Regular Length – Impact Sockets (continued)

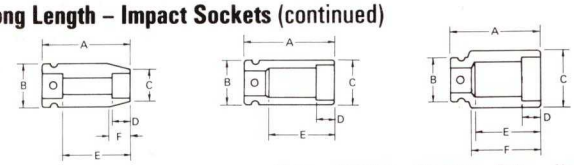
Catalog Number	Opening	Type	Length A	Drive End B	Opening End C	Opening Depth D	Bolt Clear E	Nose Length F
1½" Drive Fractional - 6 Point - Black								
8-646	1 1/16	I	3 1/8	3 3/8	2 1/2	3/4	1 1/2	1 3/16
8-648	1 1/2	I	3 1/8	3 3/8	2 1/2	13/16	1 1/2	1 3/16
8-652	1 5/8	I	3 1/8	3 3/8	2 13/16	13/16	1 1/2	1 3/16
8-654	1 11/16	I	3 1/8	3 3/8	2 7/8	1	1 1/2	1 3/16
8-658	1 13/16	I	3 1/8	3 3/8	2 15/16	1	1 9/16	1 3/16
8-660	1 7/8	I	3 1/4	3 3/8	3 1/8	1 1/16	1 9/16	1 3/16
8-664	2	II	3 1/4	3 3/8	3 1/8	1 1/16	2 1/16	—
8-666	2 1/16	III	3 7/16	3 3/8	3 3/8	1 3/16	2 3/16	2 7/8
8-668	2 1/8	III	3 7/16	3 3/8	3 3/8	1 3/16	2 3/16	2 7/8
8-670	2 3/16	III	3 9/16	3 3/8	3 3/8	1 1/4	2 3/16	2 7/8
8-672	2 1/4	III	3 9/16	3 3/8	3 3/8	1 1/4	2 5/16	2 3/4
8-676	2 3/8	III	3 3/4	3 3/8	3 3/8	1 3/8	2 7/16	2 13/16
8-678	2 7/16	III	3 3/4	3 3/8	3 3/4	1 3/8	2 7/16	2 13/16
8-682	2 9/16	III	3 3/4	3 3/8	3 15/16	1 3/8	2 9/16	2 15/16
8-684	2 5/8	III	3 15/16	3 3/8	3 15/16	1 1/2	2 9/16	2 7/8
8-688	2 3/4	III	3 15/16	3 3/8	4 1/8	1 1/2	2 11/16	3
8-694	2 15/16	III	4 1/8	3 3/8	4 5/16	1 5/8	2 13/16	3 1/16
8-696	3	III	4 5/16	3 3/8	4 1/2	1 3/4	2 15/16	3 1/8
8-6100	3 1/8	III	4 5/16	3 3/8	4 1/2	1 3/4	2 15/16	3 1/16
8-6108	3 3/8	III	4 11/16	3 3/8	5	1 15/16	2 7/8	3 1/16
8-6112	3 1/2	III	4 11/16	3 3/8	5 1/8	1 15/16	2 7/8	2 15/16
8-6116	3 5/8	III	4 11/16	3 1/4	5 5/16	2	3 1/16	3 5/8
8-6120	3 3/4	III	4 15/16	3 1/4	5 5/16	2 1/8	3 3/64	3 5/8
8-6124	3 7/8	III	4 15/16	3 1/4	5 1/2	2 1/8	3 3/64	3 7/8
8-6128	4	III	4 15/16	3 1/4	5 11/16	2 1/8	3 21/64	3 7/8
8-6132	4 1/8	III	4 15/16	3 1/4	5 7/8	2 1/8	3 5/16	3 7/8
8-6136	4 1/4	III	5 5/16	3 1/4	5 7/8	2 7/16	3 25/32	4 5/16
8-6140	4 3/8	III	5 5/16	3 1/4	6 1/8	2 7/16	3 49/64	4 1/4
8-6144	4 1/2	III	5 5/16	3 1/4	6 5/16	2 7/16	4 49/64	4 11/16
8-6148	4 5/8	III	5 11/16	3 1/4	6 1/2	2 5/8	4 1/8	4 11/16
8-6152	4 3/4	III	5 11/16	3 1/4	6 11/16	2 5/8	4 3/32	4 5/8
8-6156	4 7/8	III	5 11/16	3 1/4	6 11/16	2 5/8	4 37/64	5 1/8
8-6160	5	III	5 7/8	3 1/4	7 1/16	2 13/16	4 9/16	5 1/8
8-6172	5 3/8	III	6 5/16	3 1/4	7 1/2	3 1/16	4 49/64	5 1/4
8-6184	5 3/4	III	7	3 1/4	8 1/4	3 9/16	4 23/32	5 3/16
8-6196	6 1/8	III	7 1/4	3 1/4	8 3/4	3 13/16	4 29/32	5 3/8
8-6208	6 1/2	III	7 1/2	3 1/4	9 1/4	4 1/16	5 7/64	5 1/2
8-6220	6 7/8	III	7 3/4	3 1/4	9 3/4	4 5/16	5 5/16	5 5/8
8-6232	7 1/4	III	8	3 1/4	10	4 9/16	5 33/64	5 7/8
8-6244	7 5/8	III	8 1/4	3 1/4	10 3/4	4 13/16	5 23/32	6 1/8
8-6256	8	III	8 3/8	3 1/4	11	5 1/16	5 25/32	6 1/8
2½" Drive Fractional - 6 Point - Black								
9-6110	3 7/16	III	5 3/16	5	5 5/16	1 15/16	2 3/4	3 1/4
9-6112	3 1/2	III	5 3/16	5	5 5/16	1 15/16	2 3/4	3 1/4
9-6116	3 5/8	III	5 3/16	5	5 5/16	2	3 3/32	3 5/8
9-6120	3 3/4	III	5 3/16	5	5 1/2	2 1/8	3 1/8	3 5/8
9-6124	3 7/8	III	5 1/2	5	5 11/16	2 1/8	3 3/32	2 5/8
9-6128	4	III	5 1/2	5	5 7/8	2 1/8	3 3/8	3 7/8
9-6132	4 1/8	III	5 1/2	5	6 1/8	2 1/8	3 23/64	3 7/8
9-6136	4 1/4	III	5 7/8	5	6 1/8	2 7/16	3 13/16	4 1/4
9-6140	4 3/8	III	5 7/8	5	6 5/16	2 7/16	3 25/32	4 3/8
9-6144	4 1/2	III	5 7/8	5	6 1/2	2 7/16	4 9/64	4 5/8
9-6148	4 5/8	III	6 3/16	5	6 11/16	2 9/16	4 7/64	4 5/8
9-6152	4 3/4	III	6 3/16	5	6 11/16	2 9/16	4 5/64	4 5/8
9-6156	4 7/8	III	6 3/16	5	6 11/16	2 5/8	4 17/32	5
9-6160	5	III	6 1/2	5	7 1/16	2 13/16	4 5/16	5
9-6172	5 3/8	III	6 13/16	5	7 1/2	3 1/16	4 43/64	5 1/16
9-6184	5 3/4	III	7 3/16	5 7/8	7 7/8	3 1/4	4 19/32	4 7/8
9-6196	6 1/8	III	7 1/2	5 7/8	8 1/4	3 7/16	4 3/4	5 1/8
9-6208	6 1/2	III	8 1/8	6 7/8	9 1/16	4 9/16	4 29/32	5 3/16
9-6220	6 7/8	III	8 1/16	6 7/8	9 7/16	3 7/8	5 5/64	5 3/8
9-6232	7 1/4	III	8 7/16	6 7/8	9 13/16	4 1/16	5 15/64	5 1/2
9-6244	7 5/8	III	8 3/4	6 7/8	10 1/4	4 5/16	5 25/64	5 7/16
9-6256	8	III	9 3/8	6 7/8	10 5/8	4 11/16	5 7/16	5 9/16

Long Length – Impact Sockets



Catalog Number	Opening	Type	Length A	Drive End B	Opening End C	Opening Depth D	Bolt Clear E	Nose Length F
¼" Drive - Fractional - 6 Point - Black								
10-608	1/4	II	2	7/16	7/16	7/32	1 11/16	—
10-610	5/16	II	2	15/32	15/32	7/32	1 11/16	—
10-612	3/8	II	2	9/16	9/16	9/32	1 11/16	—
10-614	7/16	II	2	5/8	5/8	5/16	1 11/16	—
⅜" Drive - Fractional - 6 Point - Black								
12-610	5/16	I	2	45/64	1/2	11/32	1 9/16	1
12-612	3/8	I	2	45/64	19/32	13/32	1 9/16	1
12-614	7/16	I	2	45/64	21/32	7/16	1 9/16	1
12-616	1/2	II	2	13/16	13/16	15/32	1 9/16	—
12-618	9/16	II	2	55/64	55/64	1/2	1 9/16	—
12-620	5/8	II	2	31/32	31/32	9/16	1 9/16	—
12-622	11/16	II	2	1 1/64	1 1/64	5/8	1 9/16	—
12-624	3/4	II	2	1 5/64	1 5/64	5/8	1 9/16	—
⅜" Drive - Metric - 6 Point - Black								
12M-608	8	I	2	45/64	1/2	11/32	1 9/16	1
12M-610	10	I	2	45/64	41/64	3/8	1 9/16	1
12M-613	13	II	2	13/16	13/16	15/32	1 9/16	—
12M-615	15	II	2	55/64	55/64	17/32	1 9/16	—
½" Drive - Fractional - 6 Point - Black								
14-612	3/8	I	3 1/4	7/8	21/32	11/32	2 5/8	1 5/16
14-614	7/16	I	3 1/4	7/8	47/64	7/16	2 5/8	1 5/16
14-616	1/2	I	3 1/4	7/8	13/16	15/32	2 5/8	1 5/16
14-618	9/16	II	3 1/4	7/8	7/8	1/2	2 5/8	—
14-620	5/8	II	3 1/4	1	1	9/16	2 5/8	—
14-622	11/16	II	3 1/4	1 1/16	1 1/16	5/8	2 5/8	—
14-624	3/4	II	3 1/4	1 3/16	1 3/16	5/8	2 5/8	—
14-626	13/16	II	3 1/4	1 1/4	1 1/4	11/16	2 5/8	—
14-628	7/8	II	3 1/2	1 19/64	1 19/64	45/64	2 7/8	—
14-630	15/16	II	3 1/2	1 3/8	1 3/8	3/4	2 7/8	—
14-632	1	II	3 1/2	1 15/32	1 15/32	13/16	2 7/8	—
½" Drive - Metric - 6 Point - Black								
14M-610	10	I	3 1/4	7/8	43/64	3/8	2 5/8	1 5/16
14M-613	13	I	3 1/4	7/8	27/32	15/32	2 5/8	1 5/16
14M-615	15	II	3 1/4	31/32	31/32	17/32	2 5/8	—
14M-618	18	II	3 1/4	1 1/16	1 1/16	19/32	2 5/8	—
14M-619	19	II	3 1/4	1 3/16	1 3/16	5/8	2 5/8	—
14M-622	22	II	3 1/2	1 19/64	1 19/64	45/64	2 7/8	—
14M-624	24	II	3 1/2	1 3/8	1 3/8	3/4	2 7/8	—
14M-627	27	II	3 1/2	1 17/32	1 17/32	53/64	2 7/8	—

Long Length – Impact Sockets (continued)



Catalog Number	Opening	Type	Length A	Drive End B	Opening End C	Opening Depth D	Bolt Clear E	Nose Length F
¾" Drive - Fractional - 6 Point - Black								
16-624	¾	I	3 9/16	1¾	1¼	⅜	2 5/16	1 5/16
16-626	13/16	I	3 9/16	1¾	1⅜	7/16	2 5/16	1 5/16
16-628	⅞	I	3 9/16	1¾	1½	½	2 9/16	1 5/16
16-630	15/16	I	3 9/16	1¾	1 9/16	½	2 9/16	1 5/16
16-632	1	II	3 9/16	1¾	1⅝	½	2 9/16	—
16-634	1 1/16	III	3 9/16	1¾	1¾	½	2 9/16	2 13/16
16-636	1⅛	III	3 9/16	1¾	1¾	⅝	2 9/16	2 13/16
16-638	1 3/16	III	3 9/16	1¾	1¾	⅝	2 9/16	2 13/16
16-640	1¼	III	3 9/16	1¾	1 15/16	11/16	2 9/16	2 13/16
16-642	1 5/16	III	3 9/16	1¾	1 15/16	¾	2 9/16	2 13/16
16-644	1⅜	III	3 9/16	1¾	2 1/16	¾	2 9/16	2 13/16
16-646	1 7/16	III	3 9/16	1¾	2 1/16	¾	2 9/16	2 13/16
16-648	1½	III	3 9/16	1¾	2⅛	13/16	2 9/16	2 13/16
16-652	1⅝	III	3 9/16	1¾	2¼	13/16	2 9/16	2 13/16
1" Drive - Fractional - 6 Point - Black								
17-634	1 1/16	I	3 15/16	2⅛	1 13/16	½	1¾	¾
17-636	1⅛	I	3 15/16	2⅛	1⅞	⅝	1 13/16	¾
17-640	1¼	I	3 15/16	2⅛	2	⅝	1¾	¾
17-642	1 5/16	I	3 15/16	2⅛	2⅛	¾	2¼	¾
17-644	1⅜	I	3 15/16	2⅛	2⅛	¾	2¼	¾
17-646	1 7/16	II	3 15/16	2⅛	2⅛	¾	2 3/16	—
17-648	1½	III	3 15/16	2⅛	2⅜	13/16	2 3/16	2⅝
17-652	1⅝	III	3 15/16	2⅛	2½	13/16	2 3/16	2⅝
17-654	1 11/16	III	3 15/16	2⅛	2⅝	1	2¼	2⅝
17-656	1¾	III	3 15/16	2⅛	2¾	1	2 3/16	2 9/16
17-658	1 13/16	III	3 15/16	2⅛	2¾	1	2¼	2 9/16
17-660	1⅞	III	3 15/16	2⅛	2¾	1 1/16	2½	2¾
17-662	1 15/16	III	3 15/16	2⅛	2⅞	1 1/16	2 7/16	2¾
17-664	2	III	3 15/16	2⅛	2⅞	1 1/16	2½	2¾
17-666	2 1/16	III	4 1/16	2⅛	3 1/16	1 3/16	2⅝	2 15/16
17-668	2⅛	III	4 1/16	2⅛	3¼	1 3/16	2⅝	2 15/16
17-670	2 3/16	III	4 3/16	2⅛	3¼	1¼	2⅝	2 15/16
17-672	2¼	III	4 3/16	2⅛	3¼	1¼	2 7/8	3⅛
17-674	2 5/16	III	4 5/16	2⅛	3⅜	1¼	2 13/16	3⅛
17-676	2⅜	III	4 11/16	2⅛	3⅜	1⅜	2 13/16	3⅛
17-678	2 7/16	III	4 11/16	2⅛	3⅜	1⅜	3	3⅜
17-680	2½	III	4 11/16	2⅛	3⅜	1⅜	3	3⅜
17-682	2 9/16	III	4 11/16	2⅛	3⅜	1⅜	2 15/16	3⅜
17-684	2⅝	III	4 13/16	2⅛	3⅝	1½	3 1/16	3⅝
17-686	2 11/16	III	4 13/16	2⅛	3¾	1½	3 1/16	3⅝
17-688	2¾	III	4⅞	2⅛	3¾	1½	3 1/16	3⅝
17-690	2 13/16	III	4⅞	3⅜	3 15/16	1 9/16	3 3/16	3⅝
17-692	2⅞	III	4⅞	3⅜	3 15/16	1 9/16	3¼	3 13/16
17-694	2 15/16	III	4⅞	3⅜	3 15/16	1⅝	3 3/16	3¾
17-696	3	III	4 15/16	3⅜	4⅛	1¾	3 7/16	3¾
17-6100	3⅛	III	4 15/16	3⅜	4⅛	1¾	3 13/32	3 15/16
17-6104	3¼	III	5 1/16	3⅜	4 5/16	1¾	3 25/64	3 15/16
17-6108	3⅜	III	5 3/16	3⅜	4¾	1 13/16	3 47/64	3 15/16
17-6112	3½	III	5 3/16	3⅜	4¾	1 15/16	3 45/64	4 3/16
17-6116	3⅝	III	5 3/16	3⅜	5⅛	2	3 43/64	4 3/16
17-6118	3 11/16	III	5 3/16	3⅜	5⅛	2⅛	3 47/64	4 3/16
17-6120	3¾	III	5½	3⅜	5 5/16	2⅛	3 45/64	4⅛
17-6122	3 13/16	III	5½	3⅜	5 5/16	2⅛	3 45/64	4⅛
17-6124	3⅞	III	5½	3⅜	5 5/16	2⅛	3 11/16	4⅛
17-6126	3 15/16	III	5½	3⅜	5 5/16	2⅛	3 31/32	4 3/16
17-6128	4	III	5½	5	5½	2⅛	3 31/32	4⅜
17-6130	4 1/16	III	5½	5	5½	2⅛	3 61/64	4⅜
17-6132	4⅛	III	5½	5	5 11/16	2⅛	3 15/16	4 5/16
17-6134	4 3/16	III	5½	5	5 11/16	2⅛	4 3/64	4⅞
17-6136	4¼	III	5⅞	5	5 11/16	2 7/16	4 17/32	4⅞
17-6138	4 5/16	III	5⅞	5	5⅞	2 7/16	4 33/64	4⅞
17-6140	4⅜	III	5⅞	5	5⅞	2 7/16	4½	4⅞
17-6142	4 7/16	III	5⅞	5	6⅛	2 7/16	4 31/64	4⅞
17-6144	4½	III	5⅞	5	6⅛	2 7/16	4 31/32	5⅜
17-6146	4 9/16	III	7⅛	3¼	6½	2 49/64	5 5/64	5 7/16
17-6148	4⅝	III	7⅛	3¼	6½	2 13/16	5 1/16	5⅜
17-6152	4¾	III	7⅛	3¼	6¾	2 57/64	5 1/32	5⅜
17-6156	4⅞	III	7⅜	3¼	7	2 63/64	5½	5¾
17-6160	5	III	7¾	3¼	7¼	3 1/16	5 19/32	5⅞
17-6172	5⅜	III	8	3¼	7¾	3 5/16	5 49/64	5⅞
17-6184	5¾	III	8	3¼	8¼	3 9/16	5 11/16	5⅞
1⅛" Drive - Fractional - 6 Point - Black								
18-664	2	II	5½	3⅜	3⅛	1 1/16	4⅜	—
18-666	2 1/16	III	5½	3⅜	3⅜	1 3/16	4⅜	5
18-668	2⅛	III	5½	3⅜	3⅜	1 3/16	4⅜	5
18-670	2 3/16	III	5½	3⅜	3⅜	1¼	4⅜	5
18-672	2¼	III	5½	3⅜	3⅜	1¼	4⅜	4⅞
18-676	2⅜	III	5½	3⅜	3⅝	1⅜	4⅜	4⅞
18-678	2 7/16	III	5½	3⅜	3¾	1⅜	4⅜	4⅞
18-682	2 9/16	III	5½	3⅜	3 15/16	1⅜	4⅝	5 5/16
18-684	2⅝	III	5½	3⅜	3 15/16	1½	4½	5⅛
18-688	2¾	III	5½	3⅜	4⅛	1½	4⅝	5⅛
18-694	2 15/16	III	5½	3⅜	4 5/16	1⅝	5	5 5/16
18-696	3	III	5 1/16	3⅜	4½	1¾	5	5 5/16
18-6100	3⅛	III	5½	3⅜	4½	1¾	5 3/16	5¾
18-6108	3⅜	III	5½	3⅜	5	1 15/16	5¼	5¾
18-6112	3½	III	5½	3⅜	5⅛	1 15/16	5⅛	5¾
18-6116	3⅝	III	5½	5	5 5/16	2	5 11/16	6⅛
18-6120	3¾	III	5⅞	5	5 5/16	2⅛	5⅝	6⅛
18-6124	3⅞	III	5⅞	5	5½	2⅛	5⅝	6⅛
18-6128	4	III	5⅞	5	5 11/16	2⅛	6¼	6¾
18-6132	4⅛	III	5⅞	5	5⅞	2⅛	6¼	6¾
18-6136	4¼	III	6 5/16	5	5⅞	2 7/16	6½	6 15/16
18-6140	4⅜	III	6 5/16	5	6⅛	2 7/16	6½	6 15/16
18-6144	4½	III	6 5/16	5	6 5/16	2 7/16	6¾	7⅛
18-6148	4⅝	III	6 11/16	5	6½	2⅝	6¾	7⅛
18-6152	4¾	III	6 11/16	5	6 11/16	2⅝	6 11/16	7¼
18-6156	4⅞	III	6 11/16	5	6 11/16	2⅝	6 13/16	7¼
18-6160	5	III	7 1/16	5	7 1/16	2 13/16	6 15/16	7 7/16
18-6172	5⅜	III	7¼	5	7½	3 1/16	7 3/16	7½
18-6184	5¾	III	9⅝	3¼	8¼	3 9/16	7 5/16	7¾
18-6196	6⅛	III	9⅞	3¼	8¾	3 13/16	7 9/16	7 15/16
18-6208	6½	III	10⅛	3¼	9¼	4 1/16	7¾	8⅛
18-6220	6⅞	III	10¼	3¼	9¾	4 5/16	7 13/16	8 1/16
18-6232	7¼	III	10⅜	3¼	10	4 9/16	8	8¼
18-6244	7⅝	III	10⅝	3¼	10¾	4 13/16	8 1/16	8 7/16
18-6256	8	III	10⅞	3¼	11	5 1/16	8 5/16	8 11/16
2½" Drive - Fractional - 6 Point - Black								
19-6110	3 7/16	III	7 9/16	5	5 5/16	1 15/16	5	5 7/16
19-6112	3½	III	7 9/16	5	5 5/16	1 15/16	5	5½
19-6116	3⅝	III	7 9/16	5	5 5/16	2	5 13/32	5 13/16
19-6120	3¾	III	7 9/16	5	5½	2⅛	5⅜	5⅞
19-6124	3⅞	III	7 13/16	5	5 11/16	2⅛	5 11/32	5⅞
19-6128	4	III	7 13/16	5	5⅞	2⅛	5⅝	6 3/16
19-6132	4⅛	III	7 13/16	5	6⅛	2⅛	5 19/32	6 3/16
19-6136	4¼	III	8⅛	5	6⅛	2 7/16	6 1/16	6 9/16
19-6140	4⅜	III	8⅛	5	6 5/16	2 7/16	6⅛	6 9/16
19-6144	4½	III	8⅛	5	6½	2 7/16	6 25/64	6 13/16
19-6148	4⅝	III	8 7/16	5	6 11/16	2 9/16	6¼	6 13/16
19-6152	4¾	III	8 7/16	5	6 11/16	2 9/16	6 21/64	6 13/16
19-6156	4⅞	III	8 7/16	5	6 11/16	2⅝	6 25/32	7 5/16
19-6160	5	III	8¾	5	7 1/16	2 13/16	6 49/64	7¼

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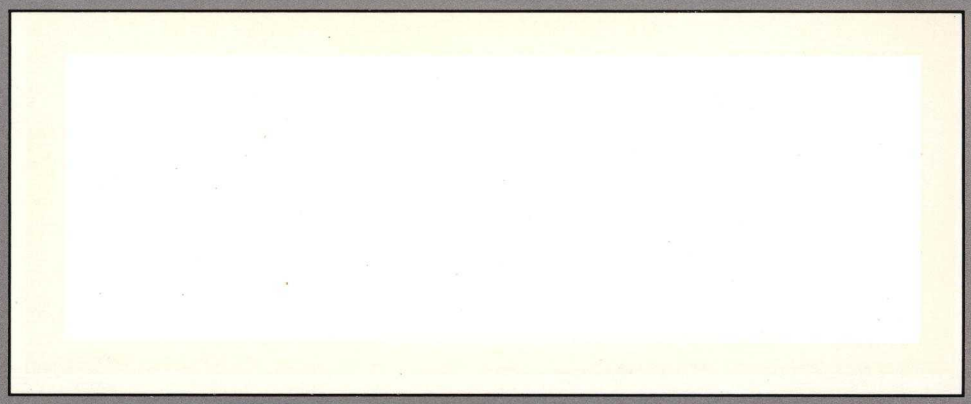

J.H. Williams Industrial Products, Inc.

Corporate Headquarters
6969 Jamesson Road
P.O. Box 7577
Columbus, GA 31908
Phone: 404-563-9590
Fax: 404-561-0061

Customer Service
Eastern and Central Region
404-569-1002

Western Region
800-423-2062

Domestic & International
Fax: 404-563-1820

Western Region Warehouse
Phone: 714-998-0860

Inside CA
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